

W.C.R.L.
10 AUG 1953

WELLCOME HISTORICAL MEDICAL LIBRARY STONE,
WELLCOME CHEMICAL WORKS,
806, BAY 1
BARTFORD, KENT.

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

AUGUST 8 1953

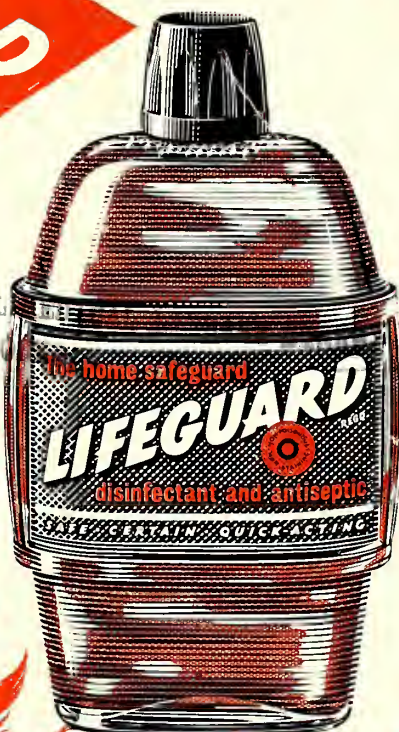
LIFEGUARD

will sell

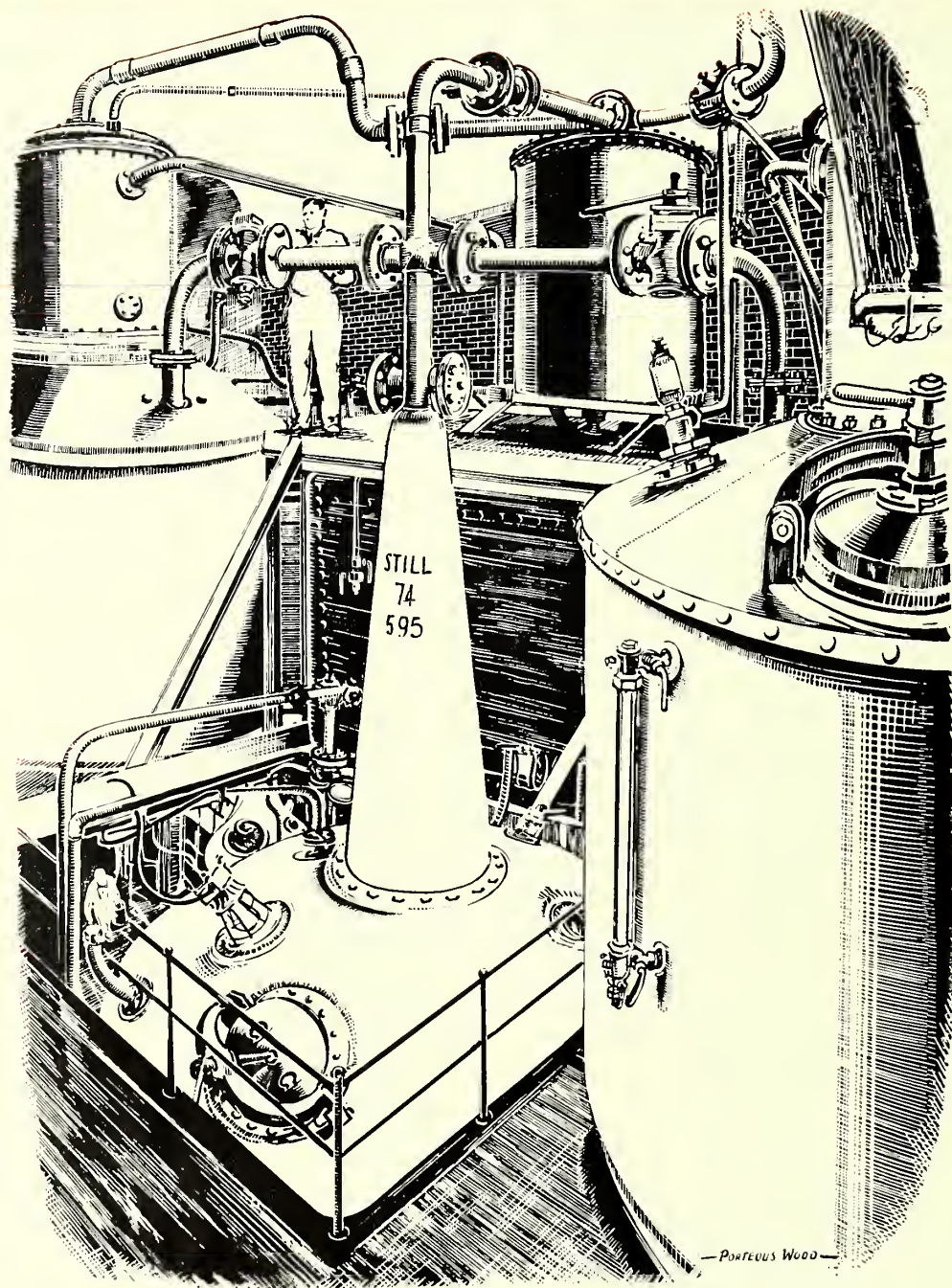
WELLCOME HISTORICAL
WELLCOME CHEMICAL WORKS

like wildfire

in summer



- ★ Winter sales bigger than ever
- ★ Nation-wide advertising ready to appear
- ★ Handsome pack-handsome profits
- ★ A first-class product



'EXTRACTION'

At Blandfield Chemical Works

No. 2 of a series by J. Porteous Wood, R.S.W.

BISMUTH CARBONATE
 CAFFEINE AND SALTS
 CANTHARIDIN
 CITRATES
 CHLORAL HYDRATE
 CHLOROFORM

T. & H. SMITH LTD.

ESTABLISHED 1827

*Alkaloids · Fine Chemicals
 Pharmaceutical Preparations*

EDINBURGH SCOTLAND

GINGER
 HYOSCYAM
 KHELL
 MORPHI
 SCAMMONY R
 STRYCHN

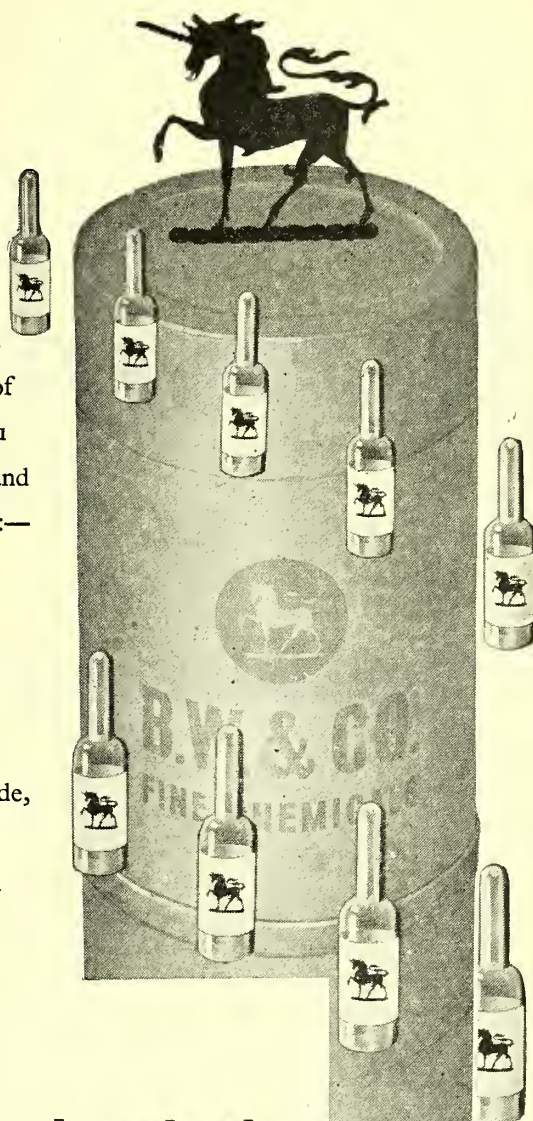
Tons or grammes...

Whether your requirements are several tons of a drug of liberal dosage or a few grammes of a potent alkaloid, you can always be assured of equally high standards of purity and quality by buying 'B. W. & Co.' Inquiries are invited for:—

Adrenaline (base and bitartrate), Atropine (alkaloid and sulphate), Benzamine Salts, Bismuth Salts, Carbachol, Cinchophen, Digitalin Amorphous, Diphenan, Emetine Hydrochloride and E.B.I., Ephedrine and Salts, Ergometrine Maleate, Methylephedrine Hydrochloride, Homatropine (alkaloid and salts), Hyoscine Hydrobromide, Isoprenaline Sulphate, Ouabain, Physostigmine Salts, Pilocarpine Salts, Strophanthin-K, Sulphaguanidine and many other alkaloids and glycosides.

you can depend on

B.W. & CO. fine chemicals



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.)
Chemical Sales Division, 183-193, Euston Road, LONDON

ferrania **FILM**



Special Holiday Bonus Offer

Ferrania roll films have been on the British market for four years and are well established as films of exceedingly high quality.

Advertising of Ferrania films has been mainly in the photographic press, but, as you know, a considerable number of Ferrania advertisements are appearing in the National Press.

We now wish further to popularise Ferrania films with the "snapshotter" and propose to make you a special Bonus offer in order to make it worth your while to arrange special displays and push sales of Ferrania Ortho roll films.

Discounts of 30% plus 10% will be given on all orders of one gross and over received by us from retail chemists until August 31st.

This offer does not apply to Panchromatic films but to Ferrania Ortho films, F20, F520, F27, F16 and F516.

Ample quantities of display material are available and will be sent on request. A brand new multi-coloured showcard, "Ferrania Girl," will be enclosed with each batch of film.

May we suggest you take advantage of this bonus offer by sending us your order now.

NEVILLE BROWN & COMPANY LTD.

77 NEWMAN STREET, LONDON, W.1. Tel: LAngham 7161 (10 lines)

THE CHEMISTS' EXHIBITION 1953

September 7th—10th

In the Royal Horticultural Society's Old Hall,
Vincent Square, Westminster, London, S.W.1.

**An event of first importance to those in
all sections of pharmaceutical practice.**

The official opening ceremony by Mr. T. Heseltine, President of the Pharmaceutical Society of Great Britain, will take place at 11.30 a.m. Monday, September 7th.

Included among Exhibitors will be many well known manufacturers of ethical medical preparations, manufacturers of chemists' sundries, makers and suppliers of hospital and laboratory equipment and specialised machinery, and firms supplying cosmetics and toilet accessories.

In addition to trade displays there will be special professional exhibits which will include:— A demonstration of a Hospital Syringe Service; an exhibit illustrating methods of oral medication; a display of the latest apparatus for the dispensing and manufacturing laboratory; an exhibit illustrating the manufacture of an important medical product.

A fully equipped Restaurant, Bar, and Lounge will be provided, and there will be daily performances of films of special interest to pharmacists.

Organisers:

THE BRITISH & COLONIAL DRUGGIST LTD.,
194-200 Bishopsgate, London, E.C.2

Publishers of
'THE BRITISH & OVERSEAS PHARMACIST'



**MEANS
BUSINESS**

The '52-'53 Cephus advertising campaign covering press and films will create an even greater demand for this famous remedy. To bring the full impact of this advertising into your shop, apply direct for Cephus Sales - Aid Material.

Help us to help you by carrying ample stocks.



**SELLS
readily
and
steadily**

CEPHUS LTD • BLACKBURN • LANCs

Ⓕ T9



The **PLEASING** effect of good print draws **ATTENTION** to your goods and creates the necessary selling **ACTION**. We supply print of this particular **QUALITY**.

Send your enquiries to:—

ALF. HARRISON & SONS LTD.

MEDICAL, CARTON & COLOUR PRINTERS

BURLEY ROAD, LEEDS, 4

Phone: LEEDS 52668/9 Grams: "IDEAS" LEEDS, 4

Chlorophyll—Cuticura Cuticura—Chlorophyll

For many years past CHLOROPHYLL—nature's own skin healing element—has been skilfully blended with fine medicaments and rich oils in the high quality, super-fatted

CUTICURA SOAPS
CUTICURA OINTMENTS
CUTICURA SHAVING STICKS

This is one of the many important reasons why an ever-growing circle of discriminating people always insist upon these soothing, protective, fragrant Preparations for every-day care of the skin. Display these firm family favourites, and make sure that this steady all-the-year-round repeat business comes to you!

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From the Carnegie Range of Fine Chemicals

BISMUTH SALTS

CARNEGIE CHEMICALS (WELWYN) LTD

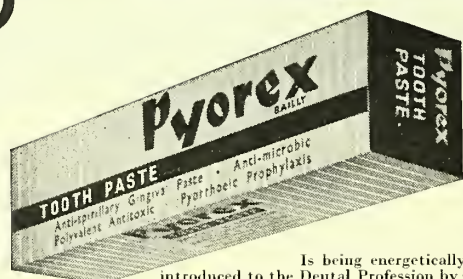
WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

Telegrams : CARNECHEM, WELWYN GARDEN

Telephone : WELWYN GARDEN 506 (4 lines)

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**ATTENTION ALL PHARMACISTS****PATA**

Is being energetically
introduced to the Dental Profession by:

- ★ DIRECT MAIL
- ★ BI - MONTHLY PRESS INSERTIONS
- ★ SAMPLING
- ★ PERSONAL REPRESENTATION

Demand is growing due to approval and recommendation by Dentists.

YOUR PROFIT over 40%

Price to you 20/8 doz. plus 5/0½ P.T.

RETAIL PRICE 2/10 per tube

We would appreciate your support in its distribution

BENGUE'S PURE ETHYL CHLORIDE for Local and General Anæsthesia

Plain or perfumed with Eau de Cologne

This pioneer brand of Ethyl Chloride is of undoubted purity and anæsthetic power, and proved by over 50 years of use by the medical and dental professions.

PACKINGS

For "Local" Anæsthesia: Tubes of 30 grm., 50 grm., and 100 grm.
For "General" Anæsthesia: Tubes of 50 grm. and 100 grm.

All tubes are fitted with automatic spray caps, and may be returned for refilling only at much reduced cost.

BENGUE & CO., LTD.

Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDLESEX

CHLOROPHYLL

is to-day
the biggest best-seller!

We are the first to offer it in the
most pleasant way
at a very popular price and with a
large margin of profit
for you as

“PHYLL”
the **CHLOROPHYLL**
CHEWING GUM
(NOW FULLY SWEETENED)

If you are a wholesaler—please fill in and send us
the attached coupon

If you are a retailer—please fill in and send us
the coupon as well; we shall pass it to wholesalers
distributing these lines.

To **DEGREE MFG. CO. LTD.**
Southall Lane, Southall, Middx.

Send me—without any obligation on
my side—FREE samples, prices and other
details of “PHYLL,” the Chlorophyll
chewing gum.

I am a **WHOLESALE**R / I am a **RETAILER**
Please delete words not applicable

NAME

ADDRESS

Looks like salt



Tastes like salt



Makes it easy for
patients to maintain
low sodium diets



THERASAL

**SODIUM-FREE SALT
SUBSTITUTE**

THOMAS KERFOOT & CO. LTD.
VALE OF BARDSLEY, LANCASHIRE

WEEK IN, WEEK OUT



SILCOT

Cotton Wool Towels

sell

all the time

It's the regular selling . . . the popular buying . . . which make Silcot such a good line for the pharmacy, such a profitable line.

And even more profitable with the discounts which you can get under the Silcot Discount Plan.

A towel of quality . . . consistent national advertising . . . colourful show material . . . constant demand . . . **GOOD DISCOUNTS** . . . yes, everything you want in a selling line you get with **SILCOT** Cotton Wool Towels.

FOR EXTRA HOLIDAY SALES

SILCOT SINGLE TOWELS. Get a supply now of the popular Silcot Single Towels and increase your sales in the holiday season. They are Size 1 towels, and are packed in attractive cartons.

Dozen

3/-

Retail Each

4d.

All goods carriage paid in free packages

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4



Cox of Brighton

For all TABLETS

Specialists in the manufacturing and packaging of pharmaceutical and allied products to private and standard specifications

also

PILLS · OINTMENTS · CREAMS

PASTILLES · CAPSULES

SOLVELLAE · SUPPOSITORIES.

"OWN NAME" PRODUCTS

(COX'S Chemists' Own Brand)

FACILITIES AVAILABLE FOR LARGE-SCALE PRODUCTION. GROSSES OR MILLIONS

ARTHUR H. COX & CO. LTD.

Manufacturing Chemists since 1839

BRIGHTON, 7, SUSSEX

Needs to be
developed fully!



**One-third of the market already uses a denture
cleaner... two-thirds await development**

1 in 3 of the twenty million denture wearers already use a specific denture cleaner. But the other two-thirds still use makeshifts. Even kitchen scourers!

Research shows that when customers try Steradent they keep on buying it. Steradent's lively, new biggest-ever advertising is aimed at those remaining two-thirds!

So just show your customers that you stock Steradent and (if we may strain the metaphor beyond endurance!)...

**Develop the other two with Steradent
-specially made to clean dentures**



'LOREXANE'

Trade Mark

INSECT SPRAY

in the popular aerosol pack

'Lorexane' Insect Spray contains gamma benzene hexachloride, the I.C.I. discovery now recognised throughout the world as the most powerful and persistent of all the modern chemical insecticides. It is non-poisonous and non-inflammable, and especially suitable for use in the house, and in farm buildings, dairies, etc. Used according to the instructions, 'Lorexane' is exceptionally economical and effective.

★

Spray fitting aluminium containers
of 6 ozs. and 12 ozs. Retail prices
7/6 and 12/6 each



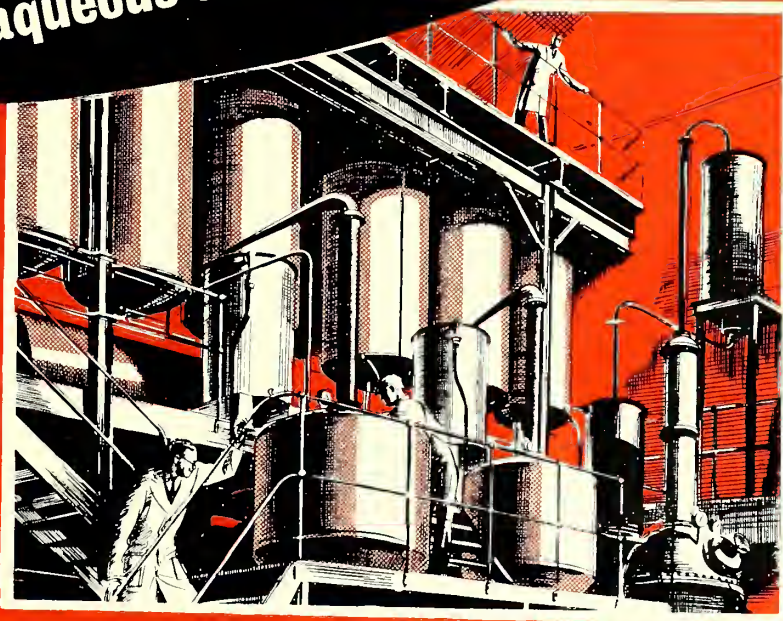
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IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED

A subsidiary company of Imperial Chemical Industries Limited

WILMSLOW, MANCHESTER

A natural raw material EXTRACTION SERVICE aqueous and solvent



Many product formulæ contain extracts of natural products, such as drug, herb or spice extract, but, unless tonnage is really large, it is seldom

economic to install special extraction plant for individual lines.

We have been extracting a very wide range of raw materials for nearly a century and have available a large and comprehensive plant, together with great experience in this work. In addition to extracting and marketing our own range of high quality drug and other extracts, we undertake the extraction of customers' materials to their own specification. Thus we can place at your disposal a suitable plant for extracting your materials—whether by the hundredweight or ton.

WE OFFER YOU OUR
EXTRACTS AND
OUR EXTRACTION
SERVICE, FULL PAR-
TICULARS OF WHICH
WILL GLADLY BE
GIVEN ON HEARING
FROM YOU



STAFFORD ALLEN & SONS LTD.
WHARF ROAD, LONDON, N.1

Telephone: CLerkenwell 1000

Telegrams: 'Stafalens, Nordo,
London'

Cables: Stafalens, London

StaffordAllenS
NATURAL RAW MATERIAL
EXTRACTION SERVICE

GREATEST EVER SELLING CAMPAIGN FOR



*Lovely
Lovely
Lavender*

IN JUNE, FIELD'S, makers of Lavender fragrance products since 1642 will launch their new Buckingham Lavender range with the biggest advertising campaign ever devoted to a single fragrance range. Full colour pages will appear in Picture Post and all the leading women's magazines. A half-page in the Sunday Express and many other large space press advertisements will continue the campaign right through to Christmas.

THIS colossal campaign is justified by the strength and quality of the fragrance and the exceptionally attractive packages.

LAVENDER is always popular. We believe Field's Buckingham Lavender is unsurpassed in strength and quality. Please link up your counter and window displays with this tremendous campaign by using the specially designed display material.

Lavender Soap 10d

Lavender Talc 2/6

Field's BUCKINGHAM Lavender

PENICILLIN PREPARATIONS

LOZENGES · TABLETS · OINTMENTS · Etc.

Aids to Dispensing Outfits of Creams and Drops

MANUFACTURED BY



DISTRIBUTED BY

MOORE MEDICINAL PRODUCTS LTD

1 QUEENS TERRACE
ABERDEEN. Tel: 27233

64 GLOUCESTER PLACE
LONDON, W.1. Tel: WELbeck 5718/9

Detailed Price List on Request.

CORK LINED SLEEVES

**CORRUGATED
PULL-THROUGH
BOXES**

Compressed Paper Packing Limited
Horton Road - West Drayton - Middlesex

Telephone: WEST DRAYTON 2237

NEW Sensational Sales Success!



Extra profits are rolling in to Rexall Chemists throughout the United Kingdom as demand soars for the new Rexall Brewers' Yeast Tablets selling at 1/6 and 2/6 a bottle as a companion to the famous Rexall Puretest Yeast Flakes.

EFFECTIVE SHOWCARD

Effective showcard for counter or window and a striking modern pack plus remarkable value for money, clinch the sales appeal of this attractive line. (Incidentally, it is free of purchase tax.)

ORDER NOW!

Enquiries from districts where there is no existing agency will be given every attention. Please write to:—

Rexall

**DRUG COMPANY LTD
NOTTINGHAM**

**AN ALL COTTON WOOL PRODUCT
OF REPUTE**

Consolux
(Registered) Patent No. 410702

**SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS**

**LOOPED ENDS
NON - ABSORBENT BACK**

WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.

SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

A REALLY CONVENIENT PACK 1/6

PER SCREW LID TIN

**NO MORE PRISING OFF LIDS
WITH A THREEPENNY BIT OR
FINGER NAILS!**



Jelly Hand Cleansers are rapidly coming into regular use—sell the best and most attractively packed of all

EVERYONE NEEDS SWARFEGA

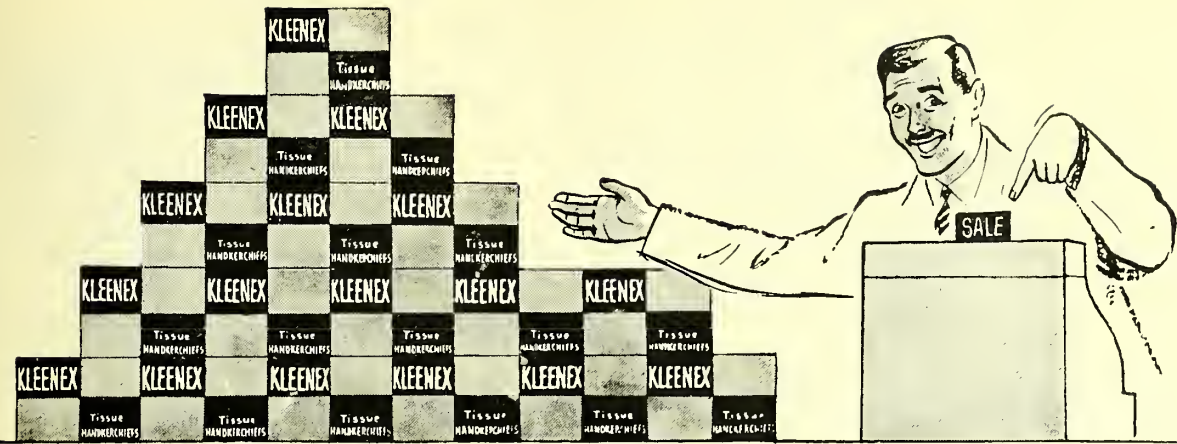
The finest jelly hand cleanser on the market

ORDER NOW and be sure to ask for the
NEW PACK

Enquiries through usual trade channels or direct to—

DEB CHEMICAL PROPRIETARIES LTD.

SPENCER ROAD, BELPER, DERBYS. Tel.: 278



SHOW KLEENEX— SHOW PROFITS!

Display Kleenex*—and get your share of 36,860,000 customers! Kleenex advertising is selling Kleenex to an audience that big . . . this *summer!* But that's just one reason why Kleenex is outselling our nearest competitor 2 to 1. For Kleenex is the softest, strongest of all handkerchief tissues . . . the **ONLY** tissue that pops up one-at-a-time . . . the tissue with the right-for-every-pocket price range.

| | |
|---|-----------------------------|
| 300 REGULAR SIZE TISSUES (150 double handkerchiefs) | Retail 2/9 |
| 200 REGULAR SIZE TISSUES (100 double handkerchiefs) | 2/- |
| 150 ECONOMY SIZE TISSUES (75 double handkerchiefs) | 1/- |

(5% discount on every 5-case order)



Advertisements like this will help you sell Kleenex all summer long.

ORDER THROUGH YOUR WHOLESALE TODAY

KLEENEX AND DELSEY ON YOUR COUNTER MEAN MONEY IN YOUR POCKET

MADE BY CELLUCOTTON PRODUCTS LTD. LONDON W.2

*Reg. T.M.



WOMEN WILL LOVE DELSEY

Fresh from its success in the U.S.A. and Canada, **DELSEY** is the only toilet roll to have such wonderful soft absorbency *plus* fully soft absorbency *plus* double-ply strength! Clean-cut perforation ensures even tearing — prevents waste. Delsey is just 1/3 for 312 double-ply sheets. Trade price 11/3 per dozen.

It's a winner!

Evan Williams
NEW line

**LIQUID LANOLIN
SHAMPOO SACHET**

Packed in attractively coloured sachets with easy tear-off corner for use. Supplied in an attention-commanding display outer holding THREE DOZEN sachets.

Have you ordered your stocks yet?

42/- per gross (plus 10/6 Purchase Tax)

Sales Dept., EVAN WILLIAMS CO. LTD., AINTREE RD., PERIVALE, MIDD.



Actual
size
4½ x 2
inches.

Retails at

6d.

For an unusually efficient service in the supply of all Patents, Ethical Proprietaries, Drugs, Galenicals and sundries.

SHEFFIELD

We deliver regularly to pharmacists in South Yorkshire, Nottinghamshire and Derbyshire.

SMITH & HILL
(CHEMISTS) LTD.
SIDNEY ST., SHEFFIELD, 1.
Telephone: 28383 (5 lines)

'SURCO'

**SURGICAL ELASTIC
HOSIERY**

**SEAMED, SEAMLESS
TWO-WAY STRETCH
ELASTIC NET**

**SURGICAL BELTS
TRUSSES AND SUNDRIES**

Over 60 years' service of everything surgical

SURGICAL HOSIERY CO., LTD.
Russell Street, NOTTINGHAM
Telephone No. 75903 Telegrams: Surgical Notts

“ **Wimzo**

— fine stuff,



but too dear for me ! ”

Researches among workers proved that there was a terrific market for Wimzo if the selling price were 1/3d. Workers said that they liked Wimzo, they liked the way its quick, thorough and gentle action shifted grease from their hands, but at 2/6d. it was more than their pockets could allow.

All right then. With a popular demand assured, with dozens of tubes of Wimzo being sold where only one was sold before, a reduction in the selling price would be made and reliance placed on turn-over profits which would prove worth while to everyone.

So from August 24th, Wimzo will be down to

1/3d. *Consumer advertising will press home this price reduction to the public, giving easier, quicker and repeated sales to the wholesaler, retailer and manufacturer.*

WIMZO: the chlorophyll hand jelly. A gentle emollient which floats away the blackest and most tenacious grease from one's hands, yes, even ingrained dirt and that embedded in one's finger nails. All one has to do is to squeeze half an inch of Wimzo onto the palm of one hand and spread by a hand washing motion; rinse off in water and the hands are left perfectly clean. With Wimzo, one need never be ashamed of his hands.

Wimzo now

down

to

1'3

U.K. ONLY

Write for trade terms. If difficulty in obtaining supplies from your wholesaler, write direct (giving wholesaler's name) to

WIMSOL LTD., KEIGHLEY, YORKSHIRE. Tel. : Keighley 4218

BISMUTH CARBONATE : CLINICAL TRIALS

Ref.: *Medical Press*, June 17th, 1953.

"This paper is the result of two years' experience . . . (of the massive dosage technique) . . . The present investigation, together with those of Cottet, Kemp and Deller (1952), must be considered as a new technique employing a well-tried therapeutic agent . . .

"The series consists of

26 cases of gastric ulcer

74 „ „ duodenal ulcer

. . . of the 100 cases, 94 were completely symptom free within one month.

ANALYSIS OF RESULTS

N.B. The follow-up period of every case is at least twelve months.

| Type | Number of cases | Became symptom-free during 1st week | 2nd week | 3rd & 4th weeks | Total symptom-free within one month | Operated | Recurrence of Symptoms | | Operation required for recurrence |
|----------|-----------------|-------------------------------------|----------|-----------------|-------------------------------------|----------|--------------------------------------|--|-----------------------------------|
| | | | | | | | Mild indigestion radiologically neg. | Severe indigestion radiologically pos. | |
| Gastric | 26 | 17 | 2 | 5 | 24 | 2 | — | 0 | 0 |
| Duodenal | 74 | 48 | 19 | 3 | 70 | 4 | — | 1 | 1 |
| Total | 100 | 65 | 21 | 8 | 94 | 6 | 20 | 1 | 1 |

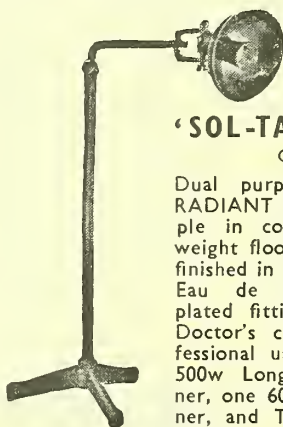
"It will be noted . . . that there was only one severe recurrence of indigestion."

Full illustrated literature obtainable from

BISMUTH RESEARCH DEPT.

MINING & CHEMICAL PRODUCTS LIMITED
376 STRAND, LONDON, W.C.1

SOL-TAN



Relief
from Pain !

'SOL-TAN' "CLASSIC"

Cat. No. E.M. 30

Dual purpose INFRA-RED and RADIANT HEAT apparatus. Simple in construction, this light-weight floor model is attractively finished in two colours: Ivory and Eau de Nil with Chromium plated fittings. Supplied against Doctor's certificate or for professional use complete with one 500w Long-wave Infra-Red Burner, one 600w Radiant Heat Burner, and Treatment Instructions.

List Price **£9.9.0** Tax Free
Spare Burners 33/- each

Indoor Sunshine !

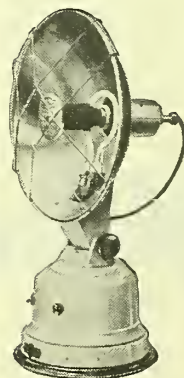
'SOL-TAN' "TRIPLERAY" 100/23 T.M.

Quartz Burner

This excellent portable model produces rich Ultra-Violet Radiant-Heat Infra-Red rays at a touch of a switch. Exceptionally well made and incorporating only the highest class materials and workmanship.

Operated on A.C. only 200/250 volt.

List Price **£19.13.3** Com
Tax Free



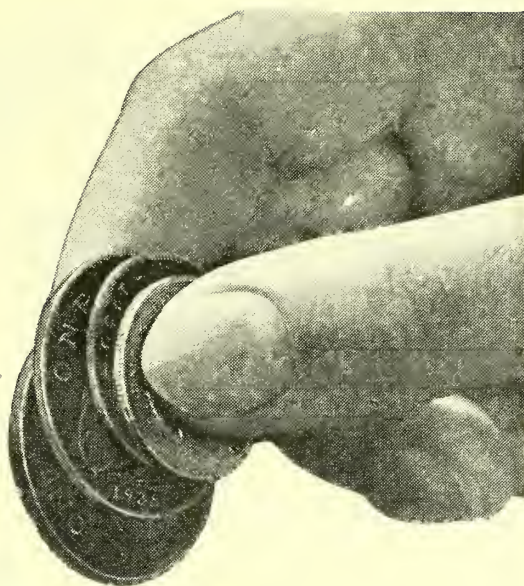
Only supplied against Doctor's certificate or for professional use

Fully illustrated Catalogue gladly sent on request. 'Sol-Tan' Marketed for Home and Export by:—

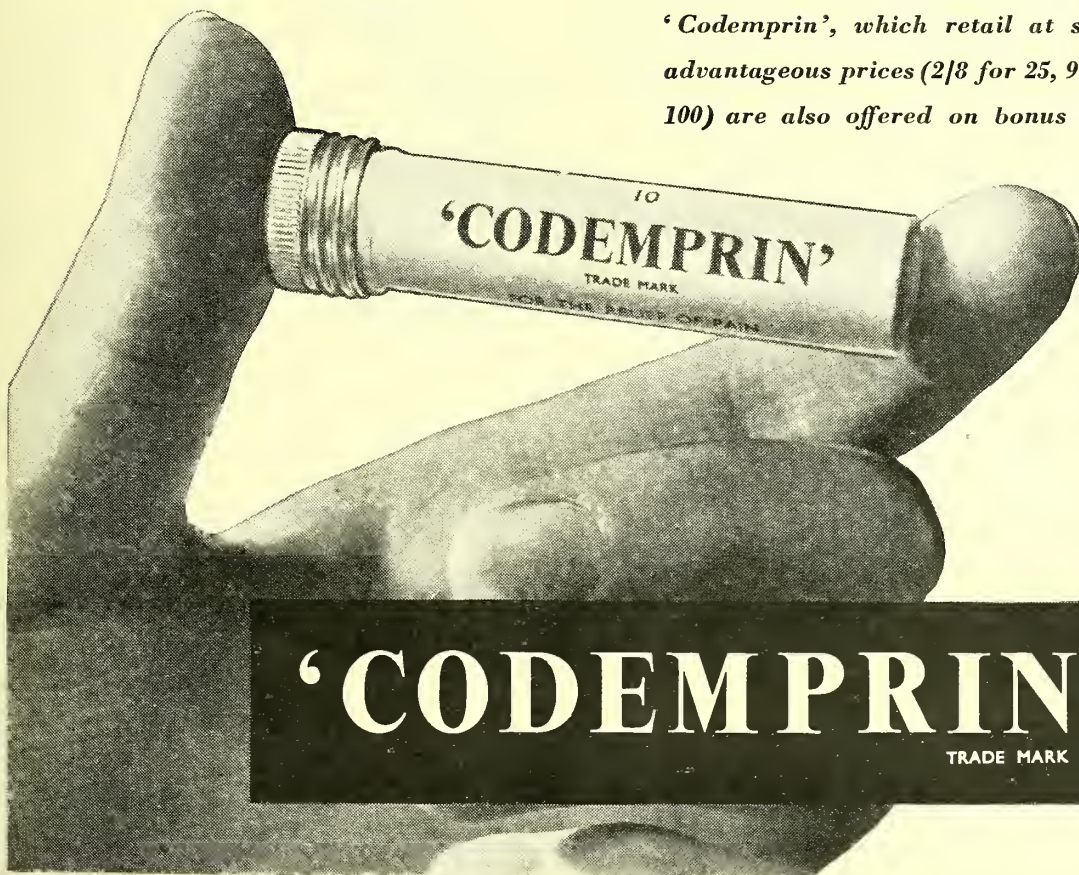
THE LONDON COMMERCIAL ELECTRICAL STORES LTD
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland

Volume 160

August 8, 1953

No. 3833

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The CHEMIST AND DRUGGIST

Volume 160

AUGUST 8, 1953

No. 3833

Report on Pharmacy

MANPOWER AND ACCIDENTS INVESTIGATED

THE report for 1951 of the Central Health Service's Council recently published (H.M. Stationery Office, 1s. 3d.) shows that the Council's Standing Pharmaceutical Advisory Committee has advised the Minister that in its opinion the shortage of pharmacists was greater than the report of the Pharmaceutical Society on that matter, which had been made available to them, suggested.

There was reason to hope that the shortage would not be progressive but some further increase in the numbers on the register would be desirable. The Committee hoped to have the benefit of the Society's conclusions on an investigation into whether a change in the "extent to which pharmacists were employed," could lead to a more efficient use of their services.

The Committee considered the restriction of the use of drugs to which idiosyncrasy is common and that are used for symptomatic relief only. As, however, the matter was not solely pharmaceutical, it decided not to make any recommendation. The hospitals subcommittee was dealing with the need to afford facilities to students for vacation work in the pharmaceutical departments of hospitals. The first draft of the report on hospital pharmacy was being considered. Twenty-five hospitals had been visited.

The Committee was represented on a subcommittee set up by the Standing Medical Advisory Committee to review the measures necessary to reduce the danger of a wrong solution being injected into hospital patients. The medical committee was agreed that a "code of practice" concerning the use of injection solutions, was desirable, and the subcommittee was enjoined to draw up such a code. When the ensuing report has been received the Committee is to consider whether the subcommittee's terms of reference should be extended to cover other procedures in which comparable errors might lead to accidents in hospital.

MACHINERY EXPORT

Freeze-drying plant

THE Board of Trade has made an Order (S.I. 1953, No. 1145) making export licences necessary for the dispatch of freeze-drying equipment to specified countries. Copies of the Order, which is entitled *The Export of Goods (Control) Amendment (No. 3) Order, 1953*, are obtainable from H.M. Stationery Office, price 3d. each.

B.I.F., 1954

No Chemical Exhibitors

THE Association of British Chemical Manufacturers announced on July 31 that, because of the declining interest shown by exhibitors and buyers, it has decided not to organise a chemical section at the 1954 British Industries Fair. The withdrawal is temporary to permit proper consideration of a long term policy and to enable a satisfactory display to be organised in future years, possibly in co-operation with allied industries such as plastics and chemical plant. There is almost unanimous agreement among members of the Association on the need to stay out of the 1954 Fair, because "another partial showing like that in 1953 labelled as a Chemical Section might well destroy any possibility of a successful section in future Fairs." The Association hopes that other potential chemical exhibitors will act in concert with members of the Association. The Board of Trade has been informed of the Association's views and intentions and has been asked to co-operate

so far as possible in the long-term interests of the Fair.

OVERSEAS RESEARCH

Bursaries Scheme

THE Royal Society and the Nuffield Foundation are jointly initiating a scheme to provide, by bursaries, facilities for scientific research workers of proven worth to pursue research, learn techniques or follow other forms of study in parts of the Commonwealth other than their own country. The scheme will be operated for an experimental period of five years during which the Nuffield Foundation will provide £5,000 per annum. The Royal Society is making an initial contribution of £2,500. It is proposed that applications should be considered at six-monthly intervals beginning early in 1954. Application forms will be available from the assistant secretary, Royal Society, Burlington House, Piccadilly, London, W.1, and must be submitted not later than March 15 and September 15 each year.

METRIC MEASURES

Two new standards

THE Board of Trade announces that two new standard metric measures of 2½ litres and 250 mls are being introduced on August 1. The additional standards have been introduced because the Association of British Pharmaceutical Industry has advised its members to sell solids, liquid galenicals and pharmaceutical chemicals by metric weight and measure only. The standards have been approved by an Order in Council dated August 1. The new order will be published as the *Weights*



BLACKPOOL WOMEN PHARMACISTS' INAUGURAL MEETING: Front row: Mrs. J. Alderson (treasurer); Mrs. A. Greenwood (secretary); Misses Winifred Atwell (guest of honour); L. I. Anderson (chairman); Mrs. E. W. Whittaker; and Miss M. Price.

and Measures (Board of Trade Standards 2½ litres and 250 mls) Order, 1953. Copies of the Order (S.I. 1953, No. 1200, price 2d., by post 3½d.) can be obtained from H.M. Stationery Office, Kingsway, London, W.C.2.

POLIOMYELITIS

Medical and nursing staffs hit

THREE doctors on the staff of the Sefton General Hospital, Liverpool, are being treated at Fazakerley Isolation Hospital, Liverpool, for poliomyelitis of which they have mild attacks. A ward sister and a student nurse of Wansted Hospital, Essex, are in Ilford Isolation Hospital with poliomyelitis. The Registrar General's return for England and Wales states that during the week ended July 25, 266 cases of acute poliomyelitis were notified. The total number of confirmed cases, in the Maidstone district is fourteen. At Coventry sixty-six cases have been notified since June 13: of those, fourteen are of the paralytic type.

Three more patients were admitted to the Londonderry Fever Hospital on August 4. Poliomyelitis was confirmed in one of them bringing the total number of confirmed cases in the hospital to thirty-five. One confirmed case has been admitted to Letterkenny Fever Hospital, co. Donegal, where there are ten others.

VETERINARY THERAPY

Amendment Order

UNDER an Order (S.I. 1953, No. 1122) made by the Minister of Agriculture and Fisheries to come into effect on January 1, 1954, the definition of "therapeutic substances" in the Diseases of Animals (Therapeutic Substances) Order, 1952 is amended to mean substances which are for the time being excluded from the operation of the Therapeutic Substances Act, 1925, as being intended solely for veterinary purposes. They are sera, antitoxins and antigens; anacrobic vaccines; killed and living bacterial vaccines; and viral vaccines. The Order also amends the description which every sealed container of a therapeutic substance must bear to include the words "to be used for animal treatment only."

EXPORT DRIVE URGED

Conference in autumn

ADDRESSING the American Chamber of Commerce in London recently, Sir Harry Pilkington (president, Federation of British Industries) said that the United Kingdom's balance of payments would "remain for the lifetime of most of us the most vital economic problem facing this country." The country depended on an expansion and never on a contraction in international trade and that challenge was primarily directed to industry and exporters. Sir Harry disclosed that the F.B.I. was convening a conference in the autumn at which it was hoped that the experience of exporters would be available for the benefit of all who were new to the export trade or new to particular markets and products.

INDUSTRIAL INJURIES

Inquiry into Benefits

THE Minister of National Insurance has appointed a committee under the chairmanship of Mr. F. W. Beney, Q.C., to review the provisions of the Industrial Injuries Act and to make recommendations. The Committee's inquiry concerns the extent to which persons who claim they are suffering from diseases due to their employment should be eligible for the special benefits of the Industrial Injuries Scheme. At present, apart from injury by accident, benefit is given only for certain specified occupational diseases. Representations from interested parties should be sent to the committee's secretary: Mr. H. B. Lewin, M.B.E., Ministry of National Insurance, 10 John Adam Street, London, W.C.2.

SULPHUR CONTROL

Prices freed

THE Minister of Materials has made Orders that exempt sulphuric acid and ground sulphur from price control with effect from August 4. The Orders are the Sulphuric Acid (Prices) (Revocation) Order, 1953, S.I. 1953, No. 1160, and the Ground Sulphur (Prices) (Revocation) Order, 1953, S.I. 1953, No. 1161 (H.M. Stationery Office, 2d. each). They revoke the following Orders: The Sulphuric Acid (Prices) Order, 1951 (S.I. 1951, No. 551) and the Sulphuric Acid (Prices) (Amendment) Order, 1952 (S.I. 1952, No. 647), and the Ground Sulphur (Prices) Order, 1952 (S.I. 1952, No. 646).

PURCHASE TAX COUPONS

Scheme to end in December

MR. Boyd-Carpenter (Financial Secretary to the Treasury) announced in the House of Commons on July 29 that the purchase tax coupon scheme would be discontinued at the end of 1953. He said that the Government was satisfied that the imperfections inherent in the experimental scheme now outweighed the benefits derived from it. The personal export scheme would continue to provide "its valuable facilities for visitors."

LOCAL NEWS

Bottle Economy

AT a meeting of the Smethwick, Staffs, Executive Council held on July 14 during a discussion on possible ways of reducing running costs of the National Health Service, Mr. A. M. Carr, M.P.S., suggested that chemist contractors should be allowed to levy a returnable charge on medicine bottles. That, he said, would save £1,000,000 a year. Mr. L. H. Teare, M.P.S., referred to the bottle "laundry" service, operated in some areas, whereby medicine bottles were cleaned and sterilised at a cost to the chemist of 1d. each. Another member (a doctor) said that at least 1,000,000 bottles were lying idle in Smethwick. His surgery, he said, was littered with empty bottles which local chemists would not accept because they were not sterilised.—At a recent meeting of the Kent and Canterbury Executive Council reference was made to the waste in medicine bottles. Opinion among members was divided about whether chemists wanted bottles returned or not.

Eire Examination Results

OF seven candidates who sat for the Dispensing Chemist and Druggist examination held by the Pharmaceutical Society of Ireland in July, the following passed: Joseph J. Bridgeman, Jeremiah J. Costello, George P. Hely, George Hennessy and Liam E. O'Leary. Eight candidates sat for the Society's July Assistants' examination, the following passed: Johanna G. Costelloe, Mary I. Murphy, Veronica P. Reilly and Michael J. Treanor.

Blackpool Women Pharmacists

THE inaugural meeting of the Blackpool branch of the National Association of Women Pharmacists was held in Blackpool on July 21. The guest of honour was Miss Winifred Atwell, well-known Jamaican pianist, who holds a pharmacist's diploma from the Medical Board of Trinidad (see C. & D., 1951.I.105). Miss Atwell, who was welcomed by the chairman of the



PRESENTATION OF CERTIFICATES: Mr. W. H. Boyd (president, Pharmaceutical Society of Northern Ireland) presenting certificates of qualification to successful students in Belfast, recently. Miss Mary B. J. O'Neill, Drumbrughas North, Lisnaskea, co. Fermanagh, is seen receiving her certificate.

branch (Miss L. I. Anderson) and presented with a bouquet by Mrs. A. Greenwood (chairman of the executive committee of the N.A.W.P. and secretary of the branch), discussed pharmacy in Jamaica with the members. When asked whether she preferred music or pharmacy she remarked that one got no applause for mixing medicine.

NEWS IN BRIEF

Open General Licence Additions.—Additions to the list of goods that may be imported under open general licence from the usual liberalisation list of soft-currency countries include dipentene and raw casein, with effect from August 1.

Dollar Surplus.—The Treasury announced on August 4 that the sterling area had a gold and dollar surplus in July of \$89m. or nearly £32m. The gold and dollar reserves therefore increased to \$2,456m. or about £877m. at the end of the month.

Forensic Pharmacy Syllabus.—The examination regulations of the Pharmaceutical Society are being reprinted. In the forensic pharmacy syllabus (see *C. & D.*, July 25, p. 89) "Dangerous Drugs Acts, 1920 to 1953" is being replaced by "Dangerous Drugs Act, 1951."

Education in Accident Prevention.—The Central Metropolitan Group of the London Industrial Committee, Royal Society for the Prevention of Accidents, is planning to organise some form of accident-prevention training for apprentices of member organisations.

Retail Sales in May.—Recently issued Board of Trade figures show that sales of chemists' goods by large retailers were 21 per cent. higher in May than in April and 15 per cent. higher than in May 1952. Comparative figures for independent retailers were 8 per cent. higher and 3 per cent. higher respectively.

Tickets for Conference Events.—A limited number of individual tickets for events at the London meeting of the British Pharmaceutical Conference will be available on application to the Conference local secretary, Dr. J. M. Rowson, 17 Bloomsbury Square, London, W.C.1. The events and prices of tickets are: Banquet, £2 2s.; excursion, £1 1s.; ballet, 12s. 6d and 10s.; ball, £2 2s.

SPORT

Go.f.—BIRMINGHAM and MANCHESTER PHARMACEUTICAL ASSOCIATIONS' GOLF SECTIONS, annual match at Leek course on July 26. B.D.H. challenge cup won by Birmingham (best five cards aggregate in a medal round gave Birmingham 387 against 413). Li-Lo challenge cup for best individual score won by F. W. Tompkinson (Birmingham captain), 74 (11). —par 73. Trophies presented after dinner by Mr. J. H. Mossman on behalf of The British Drug Houses, Ltd., and by Mr. S. W. Pierce on behalf of P. B. Cow & Co., Ltd.

EDINBURGH CHEMISTS' GOLF CLUB, competition at Ingliston, recently, for Blyton Astley prize: J. A. Smith (20), 69; best scratch score, J. B. McCaig, 79; No. 1 section, W. S. Thomson (5), 76; No. 2 section, A. Dinwoodie (15), 79.

TOPICAL REFLECTIONS

By Xrayser

Conference Proceedings

The programmes of this year's meeting of the British Pharmaceutical Conference—Science Sessions, Symposium Session, and Branch Representatives' meeting (pp. 108, 105)—offer members as varied a collection of subjects as any within my recollection. In the Science Section the monographs have, I gather, been grouped into related subjects so far as it was possible to do this: for example, three papers on antacids are followed by "The Determination of Calcium and Magnesium." Many of us have much to learn about rubber and glass; for us the addresses on those substances at the Symposium Session will be welcome. In the Branch Representatives' meeting discussions on four kinds of practice for which training is requisite will be introduced by well-known speakers, as will also a discussion on the future of Latin in pharmacy. It will be noted that tickets are not required for admission to any Science Session nor to the Symposium Session. Any member wishing to attend the other meeting must, apparently, obtain election as a branch representative. Most branches having ended their 1952-53 session, that may be a matter of some difficulty. Applications for Conference tickets have been so numerous that a large attendance, including overseas visitors, is assured.

Victorian Reminiscences

No one is either too old or too young, I hope, to enjoy the reminiscences of Mr. G. R. Lawrence, Ph.C. (pp. 122-23). He is not the first veteran for whom a short life was predicted in his childhood: some famous people have had the same experience. A choice of climate has been a factor in his longevity; that circumstance, again, can be paralleled. Long hours, paint mixing and window cleaning were things that I escaped during my apprenticeship: they have not prevented Mr. Lawrence from reaching the last quarter of his ninety-fifth year. Extensive dosing with opium and laudanum in Lincolnshire was familiar in Victorian days. The explanation commonly accepted was that opium in either form relieved ague, a complaint said to be endemic in low-lying parts of that county. People who removed to other districts took the addiction with them. I remember seeing in a southern county a box conspicuously labelled "Eggs" but containing a sixteen-ounce bottle sent regularly to a chemist's shop for refilling with tinctura opii. As Mr. Lawrence indicates, some of the laudanum sold in those days was not of official strength. During my early years in pharmacy purchases of white arsenic in seven-pound paper bags by gamekeepers were common, and some of the same customers bought strychnine by the ounce. Abernethy's pills still appear in "Pharmaceutical Formulas," Vol. I, and in "The British Pharmaceutical Codex."

Old Apparatus

Several years have passed since there was an extended description of old apparatus in your columns. More light is thrown on the subject in "Apparatus of the Past" (pp. 119-21). Your contributor has touched lightly on two questions that must have occurred to students of pharmaceutical history: How did chemists and apothecaries of the sixteenth and seventeenth centuries regulate the heat of their furnaces? How did they maintain a supply of water for cooling their distillates? Probably a fair degree of skill was acquired by constant use of the same stills, furnaces and so forth. A good general idea of the subject may be obtained from "A Pictorial History of Chemistry," the English translation of a book in German by F. Ferchl and A. Suessenguth, containing descriptions of apparatus of various kinds. The library of the Pharmaceutical Society possesses a copy of this book, no doubt. (By the way, a new edition of the catalogue of the library would be acceptable.) The apothecary or chemist of the year 1747 shown on p. 119 has a laboratory sufficiently equipped for a wholesale as well as a retail business: he or an assistant is standing in his shop at a severely professional counter with hardly anything on it.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

R. C. FRANK CHEMISTS, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, etc. Director: Julius J. Franks, 57 Brockwell Court, Effra Road, London, S.W.2.

PERPLEX, LTD. (P.C.).—Capital £5,000. To carry on the business of wholesale or retail dealers in cosmetics and toilet preparations, etc. Directors: Gosta Dahlstrom, Vastergatan 33, Malmo, Sweden, and Kenneth L. Workman.

C. C. CRELLIN, Ltd. (P.C.).—Capital £2,000. To acquire the business of a chemist carried on at 99 Woolton Road, Liverpool. Directors: Olive I. Crellin (permanent) and George E. Rae, M.P.S.

RICE'S MEDICAL HALL, LTD. (P.C.).—Registered in Dublin. Capital £500. To carry on the business of pharmaceutical chemists, etc. Harriette Jane Rice, Main Street, Portarlinton, Leix, is the first and governing director.

C. EGERTON, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists and librarians, etc. Directors: Cyril Egerton, M.P.S., and Marian J. Egerton. R.O.: The offices of M. P. Goodrich & Co., 1 Hatton Garden, London, E.C.1.

EAGLE PHARMACY (LONDON), LTD. (P.C.).—Capital £100. To carry on the business of manufacturing, photographic and general chemists and druggists, etc. Directors: Victor Frenkel, M.P.S., Desider Weisz and Alexander Weisz. R.O.: 7 Kilburn Bridge, Kilburn, Middlesex.

N. WORTH, LTD. (P.C.).—Capital £1,000. To carry on the business of perfumers in all its branches, etc. Subscribers: James M. Reeves and Alfred Durham. First directors are to be appointed by the subscribers. Secretary: E. Perry, 76 New Cavendish Street, London, W.1.

TALLEY MEDICAL JETS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in all kinds of medical and other scientific equipment, etc. Directors: Henry A. E. Talley and Maurice Apple. R.O.: 79 St. Martins Lane, London, W.C.2.

P. T. TUGWELL, LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturing and retail chemists and druggists, opticians, etc. Directors: Jessie R. Tugwell, Henry G. Tugwell, Nancy M. Musson and Percival D. Tugwell. R.O.: 402 Lymington Road, Highcliff-on-Sea, Hants.

LABORATORIES FOR APPLIED CHEMISTRY, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. Directors: Jacob Rabinovitch and Havva Rabinovitch. R.O.: Furnival House, 14 High Holborn, London, W.C.1.

KIRKBY CHEMICALS, LTD. (P.C.).—Capital £1,000. To carry on the business of research chemists and makers of chemical products of all kinds, etc. Directors: Naftal A. Hornstein and William Fletcher (both directors of Pure Chemicals, Ltd.). R.O.: 5 Rampayne Street, London, S.W.1.

SPENCER, WOODALL, LTD. (P.C.).—Capital £5,000. To carry on the business of designers and manufacturers of and dealers in medical and surgical equipment, drugs, chemicals, etc. Directors: T. H. Newnham Spencer, Ernest B. W. Woodall, Horace B. Woodall. R.O.: Town Works, Dudley, Worcs.

SURGICAL SUPPLIES (DUNDEE), LTD. (P.C.).—Registered in Edinburgh. Capital £1,000. To carry on the business of manufacturers and suppliers of and dealers in medical appliances, etc. Subscribers: Alexander Gilruth and C. R. McLeish, 10 Whitehall Street, Dundee. First directors are not named.

NO-PERCH, LTD. (P.C.).—Registered July 15.—Capital £100. To carry on the business of wholesale and retail chemists, druggists, dealers in chemical products, bird repellents, etc. Directors: Percy C. B. Shirreffs, Eastfield House, Longparrish, Hants, and William F. H. Newington. R.O.: 37 King Street, London, W.C.2.

HYDROPHANE, LTD. (P.C.).—Capital £3,400. To carry on the business of manufacturers of and dealers in fine chemicals and other pharmaceutical products, etc. Directors: Edward C. E. Hemsted, Philip W. Dodd and Margaret Hemsted. Solicitors: Woodham Smith, Borrowdale & Martin, 212 Strand, London, W.C.2.

EXSEVENS (LONDON), LTD. (P.C.).—Capital £10,000. To acquire from F. P. Sergeant Trust the sole selling and contracting rights for Great Britain and Ireland in the products manufactured in accordance with X77 for the destruction of rats and mice, etc. Director: Robert E. Whitfield. R.O.: 155 High Holborn, London, W.C.1.

ANCON METALS & CHEMICALS, LTD. (P.C.).—Capital £50,000. To carry on the business of machinery and metal merchants and brokers; dealers in pharmaceutical, medicinal and chemical preparations. Directors: Pierre Ansiau, Sigmund W. K. Benjamin and Brig. Adrian N. Hodgkin. Solicitors: Herbert Oppenheimer & Co., 20 Copt-hall Avenue, London, E.C.2.

Company News

GENATOSAN, LTD.—Mr. K. C. Ward, M.P.S., has been appointed a director.

MANCHESTER OIL REFINERY, LTD.—Owing to continued ill-health, Mr. H. Stuart Ebben has tendered his resignation as chairman and as a director of the company. His resignation took effect on August 1. The board recommends that Dr. G. Tugendhat should be re-elected a director.

WILLIAMS GALLINGTON, LTD., 325 Chingford Road, London, E.17.—Mr. C. H. Anstey, M.P.S., and Mrs. Anstey have resigned from the directorate and in their place Mrs. V. M. Worby and Mr. Robert Geoffrey Worby, Ph.C., have been appointed to the board. Mr. H. J. Worby, the holder of debentures issued by the company, is also a director.

LEGAL REPORTS

Interim Injunction.—In the Northern Ireland Chancery Court, on July 29, Mr. Justice Curran granted an interim injunction sought by Cullen & Davison, manufacturing chemists, Howard Street, Portadown, restraining James Cullen, described as a dealer, Fairview Street, Belfast, and William McAllister, clerk, Agincourt Avenue, Belfast, from passing off "Cullencil," a medicinal powder, as "Mrs. Cullen's powders." Counsel for the plaintiffs said the writ of summons had been served on both the defendants. Defendants traded as the Cullencil Manufacturing Co.

Altered Figure on Prescription.—At Nuneaton magistrates' court, on July 27, Charles Henry Matthews, Bottrill Street, Nuneaton, was accused of obtaining 160 pethidine tablets by means of a forged National Health Service prescription between June 14 and 16, 1952. Prosecuting solicitor said that on June 14, 1952, defendant was given a National Health Service prescription by an Atherstone doctor, who prescribed three items, the second being 60 pethidine tablets. The prescription was dispensed by a Nuneaton chemist, the number of pethidine tablets on the proffered form then being 160. At first the defendant denied altering the form but later made a statement in which he said: "The reason I altered '60' to '160' on the prescription was that the doctor told me that, if the pains got worse, he would send me to Queen Elizabeth Hospital to have an operation. I didn't want to go into hospital because it would have worried my wife. I told my wife I only used two tablets a week, but I have been having about three a day as I have had much pain—more than I have disclosed to my wife. I have felt a definite improvement with the medicine. I didn't realise the seriousness of the offence at the time" said Matthews "but I do so now, and am very sorry to have caused all the trouble." Accused was fined £5 plus £9 8s. 4d. costs.

BUSINESS CHANGES

THE telephone number of Gala of London, Ltd., 48 Burlington Arcade, London, W.1, has been changed to Hyde Park 4965.

THE BRITISH STANDARDS INSTITUTION is removing to 2 Park Street, London, W.1 (telephone: Mayfair 9000) on August 17.

Appointments

LANCASTER AND DISTRICT CO-OPERATIVE SOCIETY, LTD., 51 Church Street, Lancaster, have appointed Mr. R. Brothwell, M.P.S., their pharmacy superintendent.

DELAVELLE (SALES), LTD., 38 Orsman Road, Kingsland Road, London, N.1, have appointed Mr. E. J. Reeve their representative in the East Midlands area.

LONGRIDGE INDUSTRIAL CO-OPERATIVE SOCIETY, LTD., 46 Berry Lane, Longridge, Lancs, have appointed Mr. Harry Pearson, M.P.S., their pharmacy superintendent.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MR. K. P. THOMPSON asked the Chancellor of the Exchequer on July 28 what steps he proposed to take to avoid the disruption of the retail trade in articles subject to purchase tax which would be experienced in the first quarter of 1954 if no guidance about the likelihood of changes in the rate of tax were given; what recent consultations he had had with representatives of traders, and what current instructions his officials had to seek a solution. MR. R. A. BUTLER (Chancellor of the Exchequer): We shall watch the position very carefully. I cannot add to what has been said during the Finance Bill debates. MR. THOMPSON reminded him that there were serious factors there. One was the loss which the trader suffered when purchase tax was reduced, and the other was the disruption of trade by the uncertainty in the minds of traders about what was going to happen to the tax and when. Would the Chancellor keep those factors in mind when framing his next Budget? MR. BUTLER said those factors had been very much in his mind. He hoped the traders would try to be as calm as they possibly could "in these difficult circumstances."

Fair Wages Clause Breach

MR. K. ROBINSON asked the Minister of Health on July 30 what conclusions he had reached concerning contracts with the Medical Supply Association, Park Royal, London, N.W.10, following his inquiries into the firm's alleged breach of the fair wages clause.

MR. MACLEOD (Minister of Health): I regret I am not in a position to add anything to an answer given by the Minister of Labour on July 23.

MR. ROBINSON then asked if the Minister was aware that the firm was advertising for non-union labour and had a staff almost entirely of non-union men; and would he arrange for an inspection of the quality of the work being done for his department?

MR. MACLEOD: This is rather outside my field. A number of allegations have been made about this firm but I should like to make it clear that they deny all the allegations and it is only reasonable that the investigation set in train by the Minister of Labour should be allowed to proceed so that we can find out on which side justice lies.

Shops' Closing Time

SIR WALDRON SMITHERS asked the Home Secretary on July 30 if he would make a statement on the Government's proposals to fix the closing time for shops. SIR DAVID MAXWELL FYFE (Home Secretary) replied that he assumed that the question referred to the suggested provisions for amending shops legislation circulated to interested organisations for comment in March. Those suggestions were intended merely as a basis for discussion.

Proprietaries Classification

MR. IAIN MACLEOD told MRS. J. MANN on July 30 that precise information on the numbers of proprietaries classified by the Cohen committee in

categories 5 and 6 was not available. An approximate estimate of the ingredient cost of those preparations where ordered under the N.H.S. was £970,000 in 1951 and £1,120,000 in 1952. Dispensing fees would have to be added.

Prescription Levy

In the house of Lords on July 29 LORD GRANTLEY asked whether, having regard to a resolution of the British Medical Association recommending that the shilling charge for prescriptions should be abolished, the Government could tell him:—1. The percentage increase in the wholesale cost of medicaments today compared with that of the date of the commencement of the operation of the Health Act of 1947. 2. The percentage increase in the retail cost of medicaments today compared with that of January 1948. 3. What control the Government had over increasing costs of prescriptions. THE EARL OF ONSLOW replied that he regretted that comprehensive information about the movement of wholesale costs of medicaments was not available but the prices of the raw materials of commonly used medicines and dressings supplied under the pharmaceutical services of the Health Service had decreased by approximately 13 per cent. since the commencement of the Service. 2. The average cost for the Exchequer per prescription had risen because (a) the decrease was cloaked by the increase in orders for proprietary products containing those raw materials and (b) the decrease was offset by the price of certain expensive standard and proprietary drugs introduced and developed in the past two years that were not included in the 13 per cent. The approximate average cost per prescription as shown in three representative months, with the net ingredient cost and remuneration to chemists shown separately was:—

| | Month | Average net ingredient cost | | Average oncost, dispensing fee and container allowance | | Average total | |
|-------------------|-----------|-----------------------------|-----|--|----|---------------|----|
| | | s. | d. | s. | d. | s. | d. |
| England and Wales | July 1948 | 1 | 0½ | 1 | 6½ | 2 | 7½ |
| | Aug. 1952 | 2 | 5½ | 1 | 9 | 4 | 2½ |
| | May 1953 | 2 | 5 | 1 | 9 | 4 | 2 |
| Scotland | July 1948 | 1 | 4½ | 2 | 0 | 3 | 4½ |
| | Aug. 1952 | 2 | 10½ | 2 | 4½ | 5 | 3½ |
| | May 1953 | 3 | 0 | 2 | 5½ | 5 | 5½ |

3. A practitioner might prescribe any drug or medicine and a range of dressings and appliances used in general practice. If the cost of his prescribing appeared more than reasonably necessary for proper treatment the matter might be referred to the local medical committee for investigation, and money might be withheld from the practitioner's remuneration. A special unit had been established to examine prescriptions given in England and Wales and prepare details of cases in which prescribing costs appeared to be heavy in relation to those of doctors working in the same locality. Similar information was provided for local medical

committees in Scotland. The Earl of Onslow then described the Cohen Committee's scheme of classification of proprietaries. The Government had, he said, also set in train a series of cost investigations.

TEST PRESCRIPTIONS

IN LONDON recently, a chemist contractor who dispensed collyr. sod. bicarb. when collun. alk. was ordered was censured and a monetary penalty imposed. Two chemist contractors who each wrongly dispensed linctus codein. made up of equal parts of the three syrups in the formula were censured and monetary penalties imposed. A chemist contractor whose unqualified dispenser dispensed sodium phenobarbitone tablets when phenobarbitone tablets were ordered was censured and a monetary penalty imposed. In a letter to the Pharmaceutical Service Committee the contractor stated that the prescriptions of a nearby partnership of doctors made up the bulk of his dispensing. It had been his practice on a standing instruction from the partnership to supply soluble phenobarbitone when any of the doctors in that partnership prescribed phenobarbitone tablets. It was not until after the test had been taken that he realised that the prescription had not been written by a member of the partnership. A test prescription for 12 fl. oz. of mist. ammon. et ipecac. co. was reported by the London Executive Council's analyst to be 9.9 per cent. deficient in ammon. bicarb., while the chemist's analyst reported a deficiency of 3.0 per cent. of ammon. bicarb. The reserve sample of the mixture was sent to the Government Chemist who, while reporting a deficiency of 3.8 per cent. of ammonium bicarbonate, stated that "the sample is substantially in agreement with the prescription." In view of those reports the Service Committee decided that no further action was necessary.

N.H.S. STATISTICS

IN LANARKSHIRE in 1952-53 prescriptions numbered 1,406,214 and cost £629,000.

IN KENT AND CANTERBURY in 1952-53 the pharmaceutical service cost £2,713,651.

IN ESSEX in the year ended March 31, payments for the pharmaceutical service amounted to £1,654,409 compared with £1,596,666 the year before. There were 391 chemist contractors and seven drug stores and sixty-eight other contractors who undertake to supply appliances only at March 31. During the year 176 test prescriptions for medicine were dispensed; no action was necessary in 164 cases; in three cases a monetary penalty was imposed; in four cases a warning was given; no action was necessary in a further four cases referred to the Pharmaceutical Service Committee. One case has yet to be considered by the committee. Thirty-seven samples of appliances were taken and no further action was necessary in thirty-five of them; a monetary penalty was imposed in one case and a warning issued in another.

PERSONALITIES

MR. H. A. TURNER, B.Sc., Ph.C., D.B.A. (lecturer in pharmaceuticals, University of Nottingham), has been awarded the Ph.D. degree of the University for a thesis entitled "Synthesis of Potential Antituberculous Compounds." He was awarded the Pharmaceutical Society's Pereira medal in 1928 and is a member of its board of examiners.

THE RT. HON. MAURICE WEBB, P.C., M.P., who recently joined the



board of Biorex Laboratories, Ltd., manufacturing chemists, 51 Exmouth Market, London, E.C.1, brings to the board of that company the knowledge and experience of an ex-Minister of Food. Mr. Webb has represented Central Bradford in

Parliament since 1945, and is a political journalist and broadcaster of some renown. He has served as chairman of Parliamentary Lobby Journalists and on the Press Gallery committee. From 1946 to 1950 he was chairman of the Parliamentary Labour Party.

MR. KENNETH C. WARD, M.P.S., Leicester, who has been appointed to the board of Genatosan, Ltd. (see p. 132) qualified from the Leicester School of Pharmacy in 1936 and was occupied in retail pharmacy until the end of 1938. He joined the home sales office, Genatosan, Ltd., in 1939 but left to join H.M. Forces in September 1939. During his Service career he was a sergeant-dispenser in a casualty clearing station, a chemical warfare instructor and a bomb reconnaissance officer. He saw service in France, Belgium, India and Burma and was commissioned in 1944 as a lieutenant quartermaster. In November that year he was appointed staff captain (medical) on headquarters staff of Civil Affairs Services (Burma). He rejoined Genatosan, Ltd., in 1946 and was promoted area sales manager in 1948 and home sales manager in 1951. Mr. Ward is a member of the Leicester branch of the Incorporated Sales Managers' Association.

MR. R. J. GOODMAN, M.P.S., Banbury, who recently retired from the business that forms the subject of an article on p. 138, qualified in 1914 after study at the Westminster College of Pharmacy. He was the first son of a former pupil to qualify from that College. He then joined the R.A.M.C. and was in charge of the dispensary of No. 5 Indian General Hospital at Kantara, Egypt, with the rank of sergeant. He was later in the first draft of twelve chemists to be sent to the Indian Army. Mr. Goodman followed in his father's footsteps in hobbies as well as profession. He has been captain and president for three years of the local bowling club and has played for Oxfordshire about thirty times.

After a rest he hopes to revive the bowling activities that he has had to relinquish through ill-health. He is also a keen Mason, and is now Past Provincial S. Warden of Oxfordshire in the Craft.

MARRIAGE

MOFFITT—TARPEY. — At St. Joseph's Church, Glashule, co. Dublin, Eire, recently, Thomas F. Moffitt, Charlestown, co. Mayo, to Mary Bridget Tarpey, M.P.S.I., Kilkenny, co. Mayo.

DEATHS

BENNETT.—On July 22, Mr. Thomas Leigh Bennett, M.P.S., 44 Princes Street, Stockport, Ches. Mr. Bennett qualified in 1907.

BUFTON.—On July 27, Mr. William Reading Bufton, J.P., Armadale, Hereford. Mr. Bufton qualified as a chemist and druggist in 1904, and passed the Pharmaceutical Chemist examination in 1905.

CHAMBERS.—At his home on July 30, Mr. Arthur Egelwin Campbell Chambers, M.P.S., 36 Watergate, Grantham, Lincs, aged seventy-nine. Mr. Chambers's pharmacy (at that address) was one of the oldest in Grantham.

COLLINGS.—In a nursing home in London on July 29, following an operation, Mr. Thomas F. Collings (managing director, Howard, Lloyd & Co., Ltd.), Ashfordby Street, Leicester.

ELDER.—On July 22, Mr. Charles Elder, M.P.S., 25 Durham Drive, Port-

obello, Edinburgh. Mr. Elder qualified in 1901.

GORDON. — At his home at East Molesey, Surrey, on July 26, Mr. Mervyn Henry Gordon, C.M.G., C.B.E., D.M., F.R.S., aged eighty-one. Dr. Gordon was a leading bacteriologist of his generation. From the time of qualifying as a doctor in 1898 he specialised in the study of disease-forming bacteria and viruses. His work on smallpox constituted an outstanding contribution to the knowledge of virus diseases. He was an original member of the Army Pathological Advisory Committee set up in 1909. During the 1914-18 war he led the campaign against cerebro-spinal meningitis, and it was largely due to his work that the epidemics, that until then had been a constant menace to troops ceased to occur. He was appointed C.M.G. in 1917 and C.B.E. in 1919 and was elected F.R.S. in 1924. In 1936 Edinburgh University conferred upon him the honorary degree of LL.D. in recognition of his work, with which he continued to an advanced age.

SAINT.—On July 24, Mr. William Charles Saint, M.P.S., 54 Fortuneswell, Portland, Dorset. Mr. Saint qualified in 1915.

SIMPSON.—On April 17, Mr. Allwood Simpson, M.P.S., 9 Melbourne Street, Stalybridge, Ches. Mr. Simpson qualified in 1904.

WALTON.—Recently, Mr. Ralph Walton, The Hollies, Castle Hill, Maidenhead, aged seventy-six. Mr. Walton qualified as a chemist and druggist in 1898.

NORTHERN IRELAND HEALTH BOARD

Opposition to Health Centres

THE Northern Ireland General Health Services Board decided at its meeting on July 29 that, until the Ministry of Health and Local Government clarify its policy on the establishment of health centres, the functions of the health centres committee should be performed by the executive committee. At the final meeting of the health centres committee, at which it was stated that neither doctors nor dentists were pressing for centres to be opened, the secretary (Mr. G. D. Stewart), said that the pharmaceutical profession were, so far as he knew, opposed to the idea. The Board had taken the view that the support of the professions was an essential prerequisite of a successful centre and so far only a limited number of medical practitioners appeared to be interested. The Board's officials will visit the new Sighthill Health Centre, Edinburgh (see C. & D., May 30, p. 541) in September.

On the recommendation of the finance and general purposes committee an interim payment of £106,014 for June to chemists in the pharmaceutical service has been ordered, together with an estimated balance of £16,000 for April. The drug pricing committee has also authorised a final payment of £17,365 for the month of March.

The Board accepted the finding of the services committee that a caution

should be given to a chemist who failed in a drug test. The test prescription was for conspersus talci borici and the analysis showed that purified talc was completely absent from the substance dispensed and silicate of aluminium, having the characteristics of kaolin, was present amounting to 3.12 oz. (78 per cent.) per 4 oz. of the mixture. On behalf of the chemist it was stated that he had dispensed the ingredient from a stock bottle marked "talc. pur." and had no doubt in his mind that he had done so correctly. He had no reason to suspect that the contents of the jar did not conform to the label. He had taken over the dispensing part of the business about eighteen months previously in order to ensure accuracy and since the test prescription had checked over the stock. He had found a few items which required to be verified.

The attention of the Board was drawn to the procedure under the drug testing scheme whereby the chairman and a pharmaceutical member of the services committee considered the certificate of analysis of a test prescription and decided whether the case should be referred to the services committee for investigation. A suggestion that a similar arrangement should be made in medical and dental complaints was referred to the chairman.

TRADE NOTES

United Kingdom Agency.—Germint, Ltd., 105 Ritherdon Road, London, S.W.17, have been appointed United Kingdom representatives for Merveille beauty creams.

Own-name Products.—S. Maw Son & Sons, Ltd., Barnet, offer chemists

Power Road, London, W.4) state that Peritrate, introduced in 1953 as an oral prophylactic tablet for the treatment of angina pectoris, is now being manufactured in this country. The selling price has been strikingly reduced and supplies are available.

32 Deansgate, Manchester, offer help in the marketing of ethical preparations.

Change of Pack.—Tampax, Ltd., 110 Jermyn Street, London, S.W.1, distributors for Cerumol ear drops, announce that the 10-c.c. vial of that product is now issued in a new carton, complete with separate dropper, at a slight increase in price. There is no change in the price of the 2-oz. and 10-oz. sizes. Cerumol is sold tax-free on condition that it is for dispensing.

Prices Notified to Doctors.—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, have sent a revised price list of their medical specialities to all doctors operating under the National Health Service, with a note that only one of the company's products, Landrax (cytochrome C), which was evolved for certain research workers, is included in Categories 5 and 6 of the Cohen Committee's classification (see C. & D., July 24, p. 76).

Sales Departments Consolidated.—The North British Rubber Co., Ltd., Edinburgh, and the Dominion Rubber Co., Ltd., London, announce that the sales and branch service organisations of the two companies have been consolidated to give more efficient service and quicker distribution at home and overseas. The North British company will undertake the distribution in the United Kingdom of all products previously handled by the sales divisions of both companies. The Dominion Rubber Co. will undertake the distribution of North British and Dominion products overseas.

Sampling Scheme.—Reply-paid postcards, which Trufood, Ltd., Green Bank, London, E.1, distribute to doctors and nurses to enable them to request the company to send free trial tins of Trufood milk foods to mothers in their care, are also available to pharmacists. They are, of course, an effective and easy method of increasing baby business. Cards will be sent



PROPAGANDA TO FACTORY WORKERS: A poster appeal to users of machine tools not to "lose sight of eye safety," has been produced by J. & R. Fleming, Clerkenwell Road, London, E.C.1, makers of Fleming safety goggles. The poster, which is in two colours, is here reproduced.

high quality well-packed pharmaceuticals with name and address printed—at no extra charge—on the label. There is a choice of twelve designs in any of six colours (with local monopoly assured).

Self-adhesive Window Stickers.—Manufacturers interested in securing shop-window publicity should investigate the self-adhesive plastic windowstickers produced by Zell-em, Ltd., Wren Grove, Blackpool.

In Aerosol Pack.—Imperial Chemical (Pharmaceuticals), Ltd., Wilmslow, Manchester, issue their Lorexane insect spray in aerosol pack. The spray contains gamma benzene hexachloride. It is non-poisonous and non-inflammable.

An Advertised Price Corrected.—An announcement by Alfred Franks & Bartlett Co., Ltd., Gray's Inn Road, London, W.C.1, in last week's issue included an incorrect price for the Wigder nail clipper. It should have been 3s. 4½d.

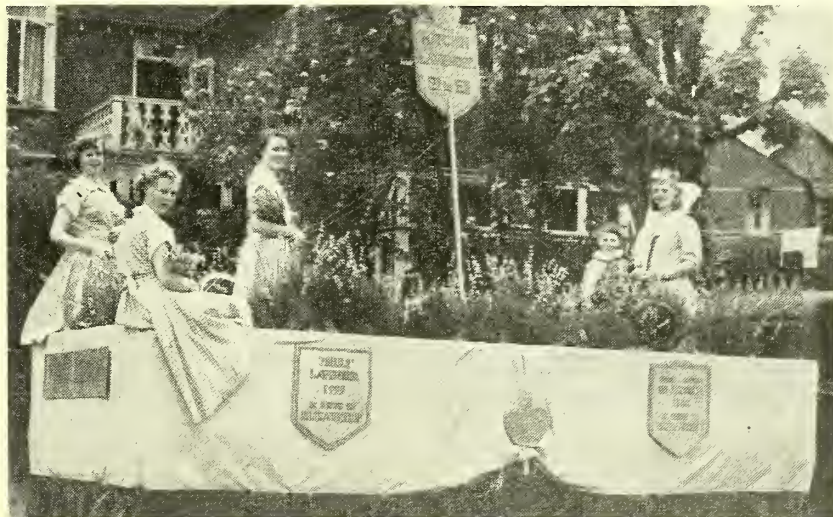
Changes of Name.—Riddell Products, Ltd., Axtell House, Warwick Street, London, W.1, announce that they have adopted the names Riddiopin for the product previously known as menthol Turiopin oil; Riddospas for the product formerly known as Spasmopurin; and Riddosedd for the product previously known as Somnacetin.

Barrier Against Sensitisation.—Halden (Pharmaceuticals), Ltd., Rowsley Works, Reddish, nr. Stockport, suggest the use of H.L.B. Katiodin cream by doctors and nurses before giving injections of antibiotics, in order to prevent the type of skin sensitisation referred to recently in "Onward from Galen" (C. & D., July 4, p. 14).

Now Manufactured in Britain.—Chilcott Laboratories Ltd. (sole agents: William R. Warner & Co., Ltd.,

Chemists' Printing.—WILLIAM SESSIONS, LTD., York, offer samples and details of cosmetics labels. — THOMAS WAIDE & SONS, LTD., Kirkstall Hill, Leeds, 5, offer their services, backed by seventy years' printing experience, in the printing of literature for the pharmaceutical industry.—A seven-day service for printed tablet cartons is offered by J. N. WHITELAW, LTD., Palestine Grove, London, S.W.19.

Trade Publicity.—Assistance to chemists in the printing of their labels and cartons is offered by ALF. HARRISON & SONS, LTD., 224 Burley Road, Leeds, 4; the HAYCOCK PRESS, LTD., Neate Street, Camberwell, London, S.E.5, and SUTTLEY & SILVERLOCK (branch of Kelly's Directories, Ltd.), Andover, Hants. The MEDICAL ADVERTISING CO.,



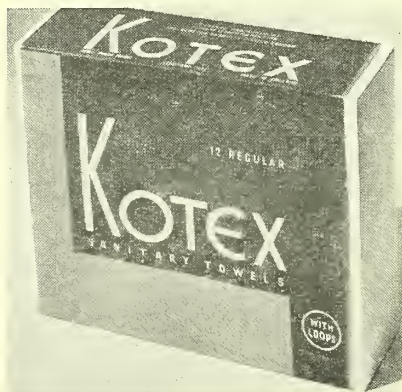
CARNIVAL PRIZE FOR HITCHIN LAVENDER: In the trade and commerce section of a carnival procession held in Hitchin recently second prize went to an exhibit "Hitchin Lavender" entered by Perks & Llewellyn. Lavender has been cultivated in Hitchin since 1568.

to any reader of THE CHEMIST AND DRUGGIST who applies. When a postcard is received by Messrs. Trufood a free trial tin of the appropriate milk food is sent off immediately—in the name of the person who sent the card.

Latin America Trade Guide.—The thirty-second revised (1953) edition of the *Market Guide For Latin America* was recently issued by the American Foreign Credit Underwriters Corporation, 170 Broadway, New York, U.S.A. It lists and gives capital and credit ratings for more than 100,000 importers, manufacturers, distributors, dealers, commission agents, exporters, and other business and governmental entities in all countries of Central and South America, Mexico, Cuba, Puerto Rico and the West Indies. A free descriptive folder and subscription terms are available from the publishers.

Christmas Showrooms.—Goya, Ltd., Amersham, Bucks, have arranged Christmas showrooms as follows:—Week commencing August 31: BRISTOL, Royal Hotel; CARDIFF, Royal Hotel; GLASGOW, St. Enoch Hotel; and LIVERPOOL, Adelphi Hotel. Week commencing September 7: MANCHESTER, Queen's Hotel; PLYMOUTH, Duke of Cornwall Hotel; NEWCASTLE, Royal Turk's Hotel; and LEEDS, Queen's Hotel. Week commencing September 14: BRIGHTON, Grand Hotel; EDINBURGH, North British Hotel; SHEFFIELD, Grand Hotel; and BIRMINGHAM, Grand Hotel. The company's full range of Christmas gifts and coffrets will be on display at the showrooms.

Improved Braxy Vaccine.—Burdoughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of a new improved vaccine for the prevention of braxy in sheep. Developed as a result of research in the Wellcome Research Laboratories, the vaccine contains the products of lysed *Cl. septicum* and the specific toxoid, the latter precipitated with potash alum. Extensive field trials have shown that a high level of efficiency is obtained against braxy at a dose rate of only 2 c.c., against 5 c.c. of the formalised whole culture vaccine which has been widely used during the past twenty years. The product is issued in containers of 50 c.c. (twenty-five doses) and 100 c.c.



Pack adopted for the new looped Kotex (see C. & D., August 1, p. 112). The makers are Cellucotton Products, Ltd., Carkers Lane, London, N.W.5.

PHOTOGRAPHIC NOTES

Numbering Machine.—For dealers who run their own D. and P. department the Leda numbering machine (Ilford, Ltd., Ilford, Essex) will be found excellent for numbering contact prints and enlargements. The weight of impression may be varied, and thus the fear of indentations that will show on the face of the prints can be eliminated. If desired, the same number may be repeated indefinitely. The body is finished in black crackle, and the change-lever is plated. The accessory is sold with a bottle of Leda black stamping ink and a stylus for setting the numbers manually or for re-setting to a past number if the change-lever has been operated in error. The outfit is packed in a strong card box finished in black. The machine is guaranteed for twelve months.

Postcard Masking Frame.—Lines & Jones, White Lund Works, Morecambe, Lancs, market a postcard masking-frame with cast alloy base, finished in white, and with sensibly high paper stops. A lug on the back of the movable portion of the device bears on one of the stops and holds the frame in a nearly vertical position while the postcard is being inserted. The frame itself is finished in matt black, and has a convenient projecting portion on the front for lifting. The hinging of the

frame allows for the thickness of the postcard when in the closed position, and the masking provides a neat $\frac{1}{8}$ -in. border without trimming. There is provision for screwing the accessory to a bench or baseboard. The makers also offer hand-made frames from $2\frac{1}{2}$ x $3\frac{1}{2}$ in. to whole-plate size.

Reflector Photoflood Lamps.—A new range of Philips Photoflood lamps available from Ilford, Ltd., Ilford, includes the N.M. 500-watt type (weight 3 oz., frontal diameter of $4\frac{1}{2}$ in., overall depth 6 in.) is supplied in bayonet cap for 210, 220 and 230 volts, or in electrical screw type for 240, 250 volts. The approximate life of the S.M. lamp is two to three hours and of the N.M. eight to ten hours. The lamps may be used for still and cine work and with colour emulsions balanced for 3,400° Kelvin colour temperature. The lamps are provided with an internal mirror reflector which is stated to be unaffected by atmospheric conditions or other influences. The saving in weight by thus dispensing with the usual type of portable reflector is considerable. For comparison, the normal type of small Photoflood lamp in a reflector gave a Weston reading of 25, while the N.M. reflector Photoflood lamp recorded a reading of Weston 100 under similar testing conditions.

NEW PRODUCTS AND PACKS

New Size.—Herts Pharmaceuticals, Ltd., Welwyn Garden City, are shortly introducing a 1-in. x 1-yd. size into their range of Slek plastic strappings. It will, like the 1-in. x $2\frac{1}{2}$ -yd., be prescribable under the National Health Service regulations.

Brewers' Yeast Tablets.—Rexall Drug Co., Ltd., Nottingham, direct attention to their new Rexall brewers' yeast tablets, which are issued in containers of two sizes. Show material is available. Inquiries are invited from chemists in districts in which there is no Rexall agent at present.

"Sixty-second" Shaver.—Remington Rand, Ltd., 1 New Oxford Street, London, W.C.1, claim to have made a sixty-second shave possible "for the first time in shaving history." That result is achievable with their new Remington 60 electric shaver, which is contoured to fit the hand, and has large heads affording a greater shaving area. It is issued in regular and dual-volt models, each in gift package.

Home Sun Treatments.—Perihel, Ltd., Edge Street, London, W.8, are featuring two new tax-free models of u.v./i.r. apparatus available on medical prescription. They are the Actinet "compact sun" 400-watt model, built into an attache case, in which a high-pressure quartz tube is mounted between two infra-red emitters to give strong ultra-violet emission. When the case is closed the goggles, flex and electrical connections are completely shielded. The second model, the Uvisol (150 watts) houses in one reflector a circular ultra-violet mercury-vapour discharge lamp around a silvered mushroom-shaped radiant-heat

lamp. A selector switch allows the independent use of radiant heat. The reflector may be adjusted for treatment over a bed; it may be locked when not used.

Crystallised Catarrh Pastilles.—As a companion-product to their well-known Potter's catarrh pastilles, Potter & Clarke, Ltd., River Road, Barking, Essex, have introduced Potter's crystal-



lised catarrh pastilles. The formula of both products is the same, but the new crystallised pastilles are sugar-coated to sell to those, including children, who prefer a more palatable pastille. The new tin pack has a slightly different shape and quite different colour combination and cannot be confused with the familiar pack. There is no price or quantity difference. The 1-doz. display outer, illustrated, opens up to give a colourful display, needs no assembly and occupies only $7\frac{1}{4}$ x 6 in. of space.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society was held in London on July 28 and 29, the president (Mr. T. Heseltine) in the chair. THE PRESIDENT reported with regret the death of Mr. Stephen Furnival, M.P.S., Bournemouth (for many years a member of the Society's board of examiners) (*C. & D.*, July 11, p. 31). It was agreed that a message of congratulation should be conveyed to Mr. Deacon on his receiving the freedom of the Borough of Bridgwater.

Vacancy not filled

The Council, in accordance with the by-laws, received nominations from its members for a co-optation, to be made in October, to fill the vacancy in the Council caused by the resignation of Mr. A. A. Meldrum. The Council considered the question of the by-laws to be made upon the coming into force of the Pharmacy Act, 1953, and in the event of the granting of the Supplemental Charter for which the Society had petitioned. A statement on the matter would be issued in due course.

It was decided that the Society's fund for the relief of pharmacists who suffered losses in the floods on the east coast of England earlier in the year should now be closed. The amount already received for the fund was £12,100. A request for final figures had been made to those who had submitted information on their losses, and a notice would be issued asking any other members who wish to present claims to do so within a certain time.

The full report of a June meeting of representatives of certain branches to consider veterinary and agricultural matters was received by the Council. It was agreed to establish a committee to deal with such matters.

THE CURATOR (Dr. J. M. Rowson) reported upon the exhibition, "Aspects of the History of Pharmacy in relation to Medicine" arranged by the Society's museum department in the hall of University College, Cardiff, during the British Medical Association's annual meeting (*C. & D.*, August 1, p. 114). Visitors had included members of the staff of the University College of South Wales, pharmacists from the Cardiff and Swansea Branches, and students from the Welsh School of Pharmacy. The department asked that the Council's thanks should be conveyed to Messrs. W. H. Hampton, Gloucester, and J. C. Lea, Richmond, for the loan of exhibits; to the National Museum of Wales and the University College of South Wales for the loan of show cases, and to the British Medical Association for the site provided and for their interest in the exhibition.

The Organisation Committee reported that it had received a letter from the British Pharmaceutical Conference Executive stating that at their meeting on July 1 they had decided that there were no grounds for changing their previous view concerning an annual religious service. On further consideration the Committee decided that there appeared to be no appropriate occasion during the year on which a service could be held.

The report of a meeting of the British Section of the Franco-British Pharmaceutical Commission stated that Mr. P. W. Hudson had been re-elected chairman for 1953-54. The Education Committee adopted, and the Council approved recommendations by the subcommittee appointed to consider educational grants for the current year. On the recommendation of the educational subcommittee, the Council agreed that the Charter Travelling Scholarship should be offered biennially, commencing in 1954; that its value should be increased to £600; that the objects of the award should be amended to enable the holder to further his training in a particular subject or subjects or to extend his teaching experience, or to undertake research outside

Great Britain, and that the age limit should be deleted. It was agreed also that the value of the Research Scholarship should be increased by £50 per annum and that it should be tenable for two years on annual appointment, to be extended for a period not exceeding one year.

The Education Committee received the report of the research scholarships subcommittee, and recommended (a) that the Pharmaceutical Society Research Scholarship for 1953-55 should be awarded to Kenneth Albert Kerridge for studies in the School of Pharmacy at Chelsea Polytechnic; and (b) that the Ransom Fellowship for 1953-55 should be awarded to Keith Henry Palmer, for studies at the University of Nottingham. The recommendations were approved. The report of the scholarships competition, 1953, was received and on the recommendation of the Education Committee the Manchester Pharmaceutical Association Scholarships for 1953 was awarded to Arthur D. W. Massam, Southport, and the Devon and Cornwall Exhibition in Pharmacy to Adela W. Wright, Exeter. The Thomas Chase Prize for 1953 was awarded to Patricia A. Turner, Montgomery, Wales. MR. F. G. WELLS asked whether the Education Committee would look into the fact that only two of the five scholarships were being awarded at present. He did not remember any previous occasion when, in three scholarship examinations, no candidates obtained the minimum number of marks. MR. C. W. MAPLETHORPE (chairman of the Education Committee) said that the conditions of entry prevented many students from entering because they were working for degrees. The conditions might have to be modified. The Council authorised the president to award the Council Prizes for 1953 in accordance with the recommendations of the examiners.

Liverpool School Approved

The Education Committee, after considering a report on proposals for improvements at the School of Pharmacy at Blackburne Place, Liverpool, recommended that the course there for the Society's Qualifying examination should be approved for a period of five years from July 1953, subject to proposed work at Blackburne Place being carried out not later than early in the financial year 1954-55 and the School being revisited from time to time during the period of approval. The Council concurred. It was reported that Mr. Maplethorpe had authorised approval of Ewell County Technical College for the Intermediate course from September 1953. THE SECRETARY reported to the Education Committee upon discussions between the examiners in physiology and pharmacology for England and Wales and for Scotland. They recommended that the practical examination should be modified by requiring the candidate to carry out a practical exercise (lasting possibly about forty minutes) under the prescribed syllabus of practical work, and to undergo an oral examination in which he might be asked questions on both the theoretical and practical work of the syllabus. The examiners also recommended that candidates should not be permitted to use their practical notebooks during the examination. The Council agreed with the committee that the practical examination should be so modified from the examination in the summer of 1954.

The report of the Intermediate examination held in England and Wales in July 1953 was received. There were 127 first entries, of whom fifty-four passed, thirty-six failed, and thirty-seven were referred and four were absent. Twenty-four out of forty-eight entrants for a referred subject passed. Approval for purposes of practical training was granted to four hospitals and an application from a fifth hospital was deferred. It was reported that since the previous meeting thirty applications from pharmacies for approval had been granted.

The Benevolent Fund and War Aid Committee's report showed that grants amounting to £553 had been made to thirteen widows, one member, and a former member. Recommendations for grants amounting to £312 to two other widows and a member were approved. The Committee confirmed the action of the chairman in authorising the payment of £50 towards a beneficiary's funeral expenses. Three applications for assistance were deferred. The Council, on the committee's recommendation, made grants amounting to £346 from the War Aid fund to two applicants and the committee made a grant of £51 in another case. A gift of Russian bearer bonds (nominal value £300) from Mr. L. S. Sellé, Hull, was reported and the secretary was asked to convey the Council's thanks to the donor.

The receipt of a cheque for £21 8s. 3d. from the Ashton-under-Lyne Branch to meet the cost of the lighting over the billiard table at Birdsgrove House was reported. The committee expressed its appreciation. A suggestion for a nine-hole putting green in the garden of Birdsgrove House was welcomed and the committee decided to consider it further at its next meeting there.

The Finance Committee recommended and the Council approved, that the action of the secretary in making payments amounting to £3,543 and the action of the treasurer in paying accounts amounting to £22,951 should be ap-

proved. The Law committee's report showed that in June 1953 the Society's inspectors and agents had visited 1,032 authorised sellers, sixty-seven listed sellers, and 675 proprietors of drug stores and similar traders. Fourteen cases of alleged infringements of the Pharmacy Acts were considered and appropriate action taken.

THE REGISTRAR reported that since the previous meeting forty-three persons had been registered as apprentices or students making a total of 278 in the current year. Applications for registration under reciprocity arrangements from seven pharmacists formerly resident in overseas countries were approved together with three applications from foreign pharmacists. The names of two pharmacists removed from the registers more than ten years ago were restored.

The discussion at a previous meeting concerning inadequate seating space at the Council table was followed experimentally at the present meeting by a reversion to a former arrangement, the president's chair being placed half-way along the side of the table instead of at one end. THE PRESIDENT said he understood that one of the committees responsible thought that that might obviate the necessity of altering the table and he suggested that they should give it a trial. MR. G. H. HUGHES, who had raised the matter, proposed that the Council should try the new arrangement for some months, and that was agreed.

A BANBURY BUSINESS CLOSES

Formerly an Educational Centre

WITH the decision of Mr. R. J. Goodman, M.P.S., to close his pharmacy in High Street, Banbury, and dispose of the premises there passed recently a colourful business that dates from the eighteenth century. Mr. Goodman himself conducted the business for thirty years but it was in the Goodman family since 1889, when Mr. R. J. Goodman's father, the late Mr. Thomas Goodman, bought the business from a Mr. Henry Beesley (a member of the family that owned the original Banbury-cake shop and whose brother wrote a history of Banbury).

The oldest prescription book in the pharmacy dates from 1810 and the descendants of many of the patients for whom prescriptions are recorded therein, well-known figures in the district, continued to be customers to the last day of the business. When the business was bought from Mr. Beesley there were many signs of former pharmaceutical activities such as tincture presses; coppers, etc., in a room used then as a warehouse. The premises were formerly something of a local cultural centre for an upstairs room in the warehouse was used by one of the Beesley family for holding botany and other classes, while the house itself possessed a valuable library.

The state of the business when Mr. Goodman, senior, took over may be gauged from the size of his first day's takings, recorded as 6s. 8d. The first little ledger, however, reveals that cash takings went up steeply year after year. The expenses side showed such items as boy's wages 3s. 6d., white-washing cellars 7s. 6d.; bottle of whisky 3s.; gin 2s. Mr. Goodman was usually referred to as "old Mr. Goodman" although he was only fifty-eight when he died in 1922. The reason for that title was that he had had a tight beard in his younger days. He was of a reserved nature and a favourite amongst his customers. For many years he was a churchwarden at his church, always entered

into the social side of the parish's activities and in his latter years he was a keen bowler.

The old bow-fronted shop windows were always admired and, they, together with coloured carboys and specie jars, indicated the true nature of the business. Until the beginning of the 1914-18 war the windows were always shuttered at night, the duty of fixing and removing the shutters falling to the lot of the errand boy or apprentice. Regularly

each week 200 carrier carts used to come into the town, an agricultural centre, before the war, with over 100 on a market day. That day (Thursday) was the busy day of the week, as the carriers brought in orders that had to be delivered to their carts standing in the streets or in hotel yards.

Now, with the buses and motor cars, business is spread more over the week. Before the 1939-45 war the shop was extended to cope with increasing business brought about in part by growth in

the town's population from about 13,000 at the turn of the century to 20,000. Rooms at the back were taken in to form an office and another warehouse. "Business even in my time," says Mr. Goodman, "has completely altered. There were comparatively few proprietaries (then called patent medicines). Today they seem endless. Assistants today would not appreciate wrapping up a pennyworth of rhubarb jalap, hiera picra, Epsom salts, etc., etc., or contending with the requests such as those below that I have taken from an old scrap book:—A pennyworth of illadulapa (oil of juniper); sychos powder (Seidlitz powder); box of briscic ointment; one packet of gorge; magna of pothase; Arton's oil (hartshorn and oil); twopennyworth of oil of cloves; and ircocoy pyoy (heira picra)."

The stock and goodwill of Mr. Goodman's business have been sold to Mr. S. W. Thompson, Market Place, Banbury.



The shop front as it was latterly.

The CHEMIST AND DRUGGIST SUPPLEMENT

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BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

DUNDEE, ANGUS. For sale, owing to death of proprietor, good family and dispensing business with excellent scope for increase. Stock, fittings and goodwill at valuation figure, approximately £1,700. Property also for sale. Box C 5719.

NORTH DEVON. Busy market town, central position, good shopping street, main thoroughfare. Old-established chemist and druggist business for sale. Freehold main shop with excellent living accommodation; also branch lock-up shop; fixtures, fittings and goodwill. S.A.V. auditors accounts. Owing to ill-health proprietor must sell quickly. Full particulars from R. Blackmore & Sons, Chartered Auctioneers, Bideford, Devon. C 4139

BUSINESSES WANTED

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

WANTED: Advertiser wishes to consider purchase of small well-established manufacturing pharmaceutical business having own sales organisation. Box C 5780.

APPOINTMENTS

18/- per half-inch (min.) and pro rata.
Box 2/-

BOSTON COMBINED HOSPITALS (322 beds)

PHARMACIST required. All types of Hospitals served. Nationally negotiated conditions and salary.

Apply, stating age, qualifications, details of previous appointments held (if any) and names of two referees to the Hospital Secretary, Boston General Hospital, South End, Boston, Lincs. C 5777

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

LOCUM CHIEF PHARMACIST required immediately. Salary 15 gns. per week. Apply with full particulars and copy testimonials to the Secretary, H.M.C. Forest Group, Langthorne Rd., E.11. C 5771

CRUMPSALL HOSPITAL, MANCHESTER, 8 (Adult General, 1,225 Beds)

Vacancies exist for two pharmacists and applications are invited for these posts. Salary and conditions of service as laid down by the Whitley Council.

Applications, stating age, nationality, details of experience, together with the names and addresses of two referees, are to be sent to the undersigned as soon as possible. Dept. "C.D."

A. T. SAMPSON,
Group Secretary. C 161

CROYDON GROUP HOSPITAL MANAGEMENT COMMITTEE CROYDON GENERAL HOSPITAL (200 Beds)

Deputy Chief Pharmacist and Pharmacist required immediately. Deputy Chief Pharmacist salary £575-£675 p.a., plus London weighting allowance up to £30 p.a. and higher qualification allowance. Large out-patient department. (Category IV hospital.) Applicants must have extensive experience in pharmacy and sterilising. Pharmacist. Salary £450-£575, plus London weighting allowance.

Application forms obtainable from the undersigned:—

GEORGE A. PAINES,
Secretary.

Croydon Group Hospital
Management Committee.

General Hospital,
London, Croydon.

C 5790

EDGWARE GENERAL HOSPITAL, EDGWARE, MIDDLESEX

Applications are invited for the appointment of **PHARMACIST** at this large general hospital where there is a busy Pharmaceutical Department and every opportunity to gain a varied experience.

Salary scale, if over 23 years of age, £450-£575 per annum plus London Weighting, and commencing salary is subject to assessment according to previous experience. Whitley Council Conditions of Service

Applications, stating age, qualifications and experience, together with the names of two referees, to Group Secretary, Hendon Group Hospital Management Committee, Edgware General Hospital. C 5792

HACKNEY GROUP HOSPITAL MANAGEMENT COMMITTEE, LONDON, E.9

PHARMACIST required for Hackney Hospital, Whitley Council salary and conditions. Applications to Secretary, Hackney Group Hospital Management Committee, London, E.9. C 156

HACKNEY HOSPITAL, LONDON, E.9

LOCUM PHARMACIST required for Hackney Hospital, London, E.9, for indefinite period, £12 12s. p.w. or according to experience. Apply Group Secretary at above address. C 5758

QUEEN CHARLOTTE'S AND CHELSEA HOSPITALS

Queen Charlotte's Maternity Hospital, Goldhawk Road, London, W.6. **PHARMACIST** (female) required. Salary at age 23 or over within the scale £450-£575 p.a. (depending on age and experience), plus London Weighting. Full board and lodging is available for which an appropriate deduction will be made. Alternatively, an indefinite **LOCUM** at 11 guineas per week will be considered. Applications together with the names of two referees to the Secretary. C 5781

HACKNEY HOSPITAL, LONDON, E.9

DISPENSING ASSISTANT required for Hackney Hospital, London, E.9. Whitley Council salary, scale and conditions. Apply Group Secretary at above address. C 5759

KETTERING GENERAL HOSPITAL, KETTERING (131 Beds)

Applications are invited for the post of Senior Pharmacist, Modern department. Salary and conditions of service in accordance with Whitley Council scale. This appointment is an original one and offers excellent experience. Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be sent to the Secretary immediately. C 5789

ROYAL FREE HOSPITAL

Applications are invited for the post of Pharmacist at the above hospital. Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing B.Pharm., Ph.C., etc. Applications, stating age, experience and referees should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 5793

ROYAL FREE HOSPITAL GROUP

Applications are invited for the post of Pharmacist at the North Western Branch and Hampstead General Hospital, Hampstead, N.W.3. Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing B.Pharm., Ph.C., etc. Applications, stating age, experience and referees should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 5794

ROYAL FREE HOSPITAL GROUP (LIVERPOOL ROAD BRANCH)

Part-time, single-handed Pharmacist required for six sessions per week from 9 a.m. to 1 p.m. daily. Salary in accordance with Whitley Council Scale for Part-time Pharmacists. Applications, stating age, experience and names of two referees to be addressed to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 5795

SCUNTHORPE HOSPITAL MANAGEMENT COMMITTEE

Vacancy end August for Senior Pharmacist (Category III). Whitley conditions of service. Salary £525 x £25 to £625. Applications, stating age, qualifications, experience and naming two referees to Group Secretary, War Memorial Hospital, Scunthorpe, Lincs. C 5791

ST. GEORGE'S HOSPITAL, S.W.1

Applications are invited for the post of Pharmacist at above Teaching Hospital. Salary in accordance with the Pharmaceutical Whitley Scale. Applications with full particulars to Chief Pharmacist. C 5773

Appointments—Continued**STOKE-ON-TRENT HOSPITAL,
MANAGEMENT COMMITTEE,
CITY GENERAL HOSPITAL,
STOKE-ON-TRENT**

Applications are invited for the post of Assistant in Dispensing. Salary in accordance with National Scales. Applications giving full details, including qualifications and experience, to the Secretary at the Hospital. C 5772

**WEST LONDON HOSPITAL,
HAMMERSMITH ROAD,
LONDON, W.6**

Applications invited for the appointment of PHARMACIST (MALE OR FEMALE) at the above general teaching hospital, where there is a busy Pharmaceutical Department and a wide variety of experience is offered. Salary scale £450-£575 per annum, plus London Weighting. Other terms and conditions in accordance with the Pharmaceutical Wholesale Council. Age, qualifications, experience, names two referees to Secretary. C 5763

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

COVENTRY. Pharmacist required (male or female) for central pharmacy. Congenial position. Adequate staff support. No rota, Sunday or half-day duties. 44-hour week. Superannuation scheme in operation. Salary £15 per week with bonus paid half-yearly. Apply with full particulars stating age, experience, etc., to Superintendent Chemist, Lockhurst Lane Co-operative Society, Ltd., 376 Foleshill Road, Coventry. C 4104

EDGWARE AND HENDON. Experienced young lady counter assistants required for branch pharmacies in these districts. Apply, with full particulars, to John Harley, Ltd., 153 Regency Street, S.W.1. C 4136

ENFIELD, MIDDLESEX. Dawsons Chemists, Ltd., have a vacancy for a pharmacist as manager. The situation is permanent and all reasonable conditions of age, salary, accommodation, etc., can be met. Applications will be treated strictly confidential and should be addressed to A. A. Dawson, marked "private." C 4138

HOUNSLOW. An experienced pharmacist is required to manage a substantial business in this area. The salary to be paid will be commensurate with the duties involved and there is a good supporting staff. Unfurnished accommodation with garage can be provided if desired. Application in first instance to Box C 4118.

LIVERPOOL. Qualified manager required for new pharmacy, permanent position. Salary £800 per annum. No Sunday or half-day closing duties, full counter staff and dispensing assistant engaged. Apply to Metcalfe & Co. (Liverpool), Ltd., 34 Landford Avenue, Liverpool, 9. C 4143

LONDON CO-OPERATIVE CHEMISTS, LTD., require in the western suburbs the services of two experienced dispensing assistants accustomed to quantity N.H.S. prescriptions (under qualified supervision). The salary and commission payable are commensurate with the duties involved. Applications to Superintendent Chemist, Grange Rd., Leyton, London, E.10. C 4121

MAIDSTONE, KENT. Qualified assistant required mainly for dispensing duties. Permanent and congenial post with superannuation scheme. Provision of house will be considered if necessary. Stanham & Son, Ltd., 70 Bank Street, Maidstone. C 4137

MIDDLESEX. Applications are invited from pharmacists to take over the management of a congenial business in a western area London suburb. The salary would be substantial for the responsibilities involved. Application in first instance to Box C 4119.

NORTH-WEST LONDON. Vacancies exist for experienced toilet assistants in modern, good-class pharmaceutical branches situate in this area. Good salary and prospects. Applications to Superintendent Chemist, Grange Rd., Leyton, London, E.10. C 4122

PHARMACIST to manage new shop in N.W.1. Able to control staff. Living accommodation available if required. Salary £850 with excellent prospects for right man to increase. Telephone Welbeck 8365. 9 a.m.-6 p.m. C 4124

QUALIFIED CHEMIST OPTICIAN, or optician with pharmaceutical experience (either sex) wanted for private company in North Wales. Sole charge of optics at two well-established branches. Welsh speaking essential. Adequate supporting staff including clerical for optics. Details of qualifications and experience to Box C 4142

STAMFORD. Pharmacist required to manage new main road branch. Salary, including bonus and rota fees, £800 per annum to commence. Very attractive self-contained flat with garden available at a reasonable rent. This is a permanency with excellent conditions of employment, including 44-hour week and superannuation. Apply, giving usual details, to Peterborough Co-operative Chemists, Ltd., Park Rd., Peterborough, Northants. C 4112

TOTTENHAM. Young lady required for branch near Stamford Hill; duties chiefly dispensing; permanency; hours 9 a.m. to 6 p.m. 3 weeks holiday a year. Apply with full particulars of experience to Young & Harrison, Ltd., 476 Hertford Rd., Enfield, or telephone Howard 1723 or 2916 for an appointment. C 4130

UNQUALIFIED ASSISTANT, either sex, required for busy middle-class pharmacy. Fully experienced counter and dispensing. Apply with details of age, experience, salary required, to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12, or telephone Tulse Hill 1738 for appointment. C 4140

WELWYN DEPARTMENT STORE, Welwyn Garden City, have vacancy for Underbuyer (male) in their Drug Department with dispensary, surgical and photographic sections. Ideal post for young Qualified Assistant. Full consideration also given to unqualified applicants with all-round experience. Successful applicant, if resident in London, would qualify for housing under Development Corporation Scheme. Write full particulars, salary required, Staff Manager, Box -C 4073.

LOCUMS WANTED

RELIEF PHARMACIST. London Co-operative Chemists, Ltd., have a vacancy for a locum pharmacist for long or short periods—August and September—in London and the suburban areas. Generous salary and expenses basis. Application to Chief Pharmacist, Grange Rd., Leyton, London, E.10. C 4120

RETAIL (OVERSEAS)

OLD-ESTABLISHED East African company representing Imperial Chemical (Pharmaceuticals), Ltd., and with London correspondents, requires two pharmacists for administrative and sales development work in East Africa. Single men under 30 preferred. Good salary with prospects commensurate with age and experience, including free passages, pension fund and, later, benefits of profit sharing scheme. Initial contract three years with six months leave on full pay. Applications with full particulars should be sent to Box C 4132.

WHOLESALE

BURROUGHS WELLCOME & CO. invite applications for a production pharmacist in the pharmaceutical division of the Wellcome Chemical Works, Dartford, Kent. Applicants should have had experience in manufacturing and aseptic techniques in the pharmaceutical industry. Full details of experience and qualifications should be sent to the Personnel Manager, Wellcome Chemical Works, Dartford, Kent. C 5800

FIRM OF MANUFACTURING CHEMISTS in West Midlands, specialising in veterinary supply, require qualified chemist, to be in charge of factory. Age 35-45. Excellent opportunities for energetic, capable and enterprising man. Knowledge of veterinary work a great advantage. Some knowledge of selling also an advantage. Box C 5797.

GENATOSAN, LIMITED, a member of the Fison Group, require Medical Representatives to cover General Practitioners, Hospital Medical Officers, etc., in the areas of:—(a) London, (b) Bristol and South-west England. These are well-remunerated and superannuated posts, with good prospects for keen and energetic people, preferably with experience of medical detailing. Full personal details with summary of attainments and experience, also area preferred, should be addressed to:—The Personnel Officer Genatosan, Limited, 12 Derby Road, Loughborough, Leics. Please quote Ref. "S/M." C 5784

**MARCHON PRODUCTS, LIMITED,
WHITEHAVEN,
CUMBERLAND**

Applications are invited from pharmacists or chemists of degree standard, preferably with some post-qualifying experience with a manufacturing company, for a position in Technical Service Department.

The duties involve various aspects of formulation and development work in connection with the use of surface active and related compounds in the cosmetic, pharmaceutical and allied industries. An opportunity will be given of contacting home and overseas customers, in co-operation with the Sales Department.

The post should be attractive to applicants aged 25-30 years who possess ambition and initiative. There is a Pension and Life Assurance Scheme and the salary will be in accordance with qualifications and experience. C 5788

LABORATORY ASSISTANTS REQUIRED.

Young ladies with some experience of analytical control work required by pharmaceutical manufacturers in London, N.W.10. State age, experience and salary required. Box C 4126.

LEEDS AREA. Representative required by London firm, must have good knowledge of surgical instruments and hospital equipment. Previous experience essential and connections an advantage. Good salary and bonus, with car if required, for suitable applicant. Apply JGE Dept., Box C 5658.

MEDICAL REPRESENTATIVE

Applications are invited for the post of medical representative in Hampshire and neighbouring counties. Pharmaceutical qualification desirable, but consideration will be given to unqualified applicants with comparable knowledge. Remuneration is by salary and expenses and is progressive. A car is provided. Previous experience not essential as the successful applicant will be required to undergo a course of training. Applications will be treated in the strictest confidence and should be addressed to: Sales Director, Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. C 5783

MEDICAL REPRESENTATIVE required by London House to visit doctors, hospitals and chemists in Greater London. Applicants must have had good-class dispensing and pharmacy training and should have an adequate knowledge of pharmacology and of medical terminology. Men between the ages of 25 and 35 are invited to apply, and details of age, experience and salary required should be stated. Box C 163.

MEDICAL REPRESENTATIVES. A rapidly expanding company with international connections and marketing a unique range of ethical medical products invite applications from experienced, preferably qualified, medical representatives for the following territories:—South Wales and Bristol; Midlands; Liverpool and West Lancashire; London; and East Scotland. A generous salary and expenses will be paid and a car is provided. There is a company pension scheme. The position offers considerable scope and prospects for those with initiative and ability. Applicants, who should be under 40 years of age, apply giving full details to Box C 5745.

PHARMACIST required to take charge of dangerous drugs and assist in management of manufacturing department. Apply in first instance by letter, stating experience and salary required, to Brook, Parker & Co., Ltd., Horton Rd., Bradford. C 4131

THOMAS WAIDE & SONS, LTD., are in need of a representative for the Midlands. Applicants kindly apply in first instance by letter to Thomas Waide & Sons, Ltd., Kirkstall Hill, Leeds, 5. C 4108

IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

ASSEMBLER/STOREKEEPER

required, either sex, experienced in Ethical proprietaries, patents, toilets, and chemists' sundries. Excellent conditions, scope for promotion. Apply with full particulars to Biorex Laboratories, Ltd., 47/51 Exmouth Street, E.C.1. Phone: Terminus 9494. C 5798

SALES REPRESENTATIVE

offered salary, commission, expenses, and opportunity of substantial income; must have established connection and experience in selling to chemists; drugs, galenicals, dressings, plasters, proprietaries, and chemists' sundries. Must be car owner. Some Home Counties and London Territories vacant. Apply to Biorex Laboratories, Ltd., 47/51 Exmouth Street, E.C.1. C 5799

Situations Open—Continued

RIMMEL, having restyled their complete range of beauty products at the highest level, which they are now about to promote by a national marketing campaign, seek the services of first-class salesmen, with long experience and wide connections in this field capable of earning over £1,000 p.a., residing in the following areas:—Birmingham, Manchester, Leeds, Bristol, Plymouth and Cardiff. The following information is required in the first application: Age, present employers, period of present employment, previous experience, territory covered, whether car owner. Applications, which will be treated in the strictest confidence, should be addressed to: The General Manager, Rimmel (Distributors), Ltd., 70 Park Lane, London, W.1. C 5796

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

RETAIL (HOME)

MANAGER drug store. Present similar position four years. Accommodation if available. Alternatively will accept post of unqualified assistant E. Lloyd. Dane Cottage, Elvington Lane, Hawkinge, Kent. C 4134

LOCUMS SEEKING ENGAGEMENTS

DISPENSER (Hall) seeks locum, permanent, or part-time post London or vicinity. Box C 4145.

WHOLESALE

GENTLEMAN with wide experience of the pharmaceutical trade, home and export, requires an executive position with good firm. Box C 4117.

PHARMACIST (lady), good retail and hospital experience, requires representative post London and/or Home Counties. Car owner. Box C 4097.

WANTED

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

BOTTLES, JARS AND CLOSURES purchased for cash; we take this opportunity of advising you that we are open to purchase all stocks of medical bottles, screw caps, gummed tapes and other packaging materials. For top prices communicate, with samples, to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon St., E.C.4. Man. 3915-2. C 162

SURPLUS STOCKS PURCHASED, large and small quantities. Quick decisions made; send samples and prices. W.E.W.S., 18 Broadwick St., W.1. C 4103

WANTED, STOCKS FOR CASH. We are cash buyers of merchandise of every description. Also clearance stocks, discontinued lines, surplus and redundant stocks, bottles, jars, screw caps, cartons, and other packaging materials. In fact goods of all kinds can be disposed of through us, without delay, on the most favourable terms and without trouble. Should you have anything for disposal either now, or at any future time, please send us samples, full particulars and price on a cash settlement basis and the matter will have our immediate and careful attention. Reliance Trading Co., 13 New College Parade, Finchley Road, London, N.W.3. C 115

WANTED: Surplus or redundant merchandise, clearance goods of any description or discontinued lines. Cash immediately, no delay. Our representative will be pleased to call or, alternatively, please send samples with particulars, quantity and price. Lawrence Edwards & Co., Ltd., 6-7 Wellington Close, Ledbury Rd., London, W.11. Telephone: Bayswater 4020. C 140

WANTED: Nickel acetate; wool greases; skin greases; sodium acetate, technical white crystals; monoethanolamine. Box C 5786.

WANTED: Sodium sulphide 60/62%, solid fused, broken and flake qualities; caustic soda flakes in 3/4 cwt. and 1 cwt. drums; bone greases; bone flour; feeding mgat; bone meal over 40% protein. Box C 5787.

WANTED: Liquid paraffin; technical white oil. Box C 5785.

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

ESTABLISHED FIRM with 17 representatives covering whole of England, Scotland and Wales calling on doctors and chemists would undertake distribution of, or accept agency for, high-class ethical pharmaceutical or medical specialities. Box C 5765.

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Categories of Stores

| Categories of Stores | Due Date for Return of Tenders |
|--------------------------------------|--------------------------------|
| Glycerine | 10 a.m. on:— |
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| Dextrose | Aug. 26, 1953 |
| Liquid and soft paraffin | Aug. 26, 1953 |
| Antiseptic fluids | Aug. 26, 1953 |
| Methylated spirit | Aug. 26, 1953 |
| Anaesthetics | Aug. 29, 1953 |
| Vitamin products | Aug. 29, 1953 |
| Sulphonamide preparations | Aug. 29, 1953 |
| Hormone preparations | Aug. 29, 1953 |
| Sanitary towels | Aug. 29, 1953 |
| Injection ampoules and vials | Sept. 2, 1953 |
| Medicinal tablets and pills | Sept. 2, 1953 |
| Medicines and drugs | Sept. 5, 1953 |
| Surgical dressings | Sept. 5, 1953 |

Applications for tender forms should be made in writing to the Secretary, Department of Health for Scotland, Room 15, St. Andrews House, Edinburgh, 1, and should bear the word "Contracts" in the lower left-hand corner. The category (or categories) of stores for which forms are required should be clearly stated.

No undertaking can be given that the lowest (or any) tenders will be accepted. The Ministry of Health, as agents for the Department of Health for Scotland, will enter into contracts with the successful tenderers.

C 5782

The C and D WEEKLY LIST OF PRICE CHANGES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 25 per cent.; † = Tax 75 per cent.

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|---|---------|--------|--------|
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| capsules 0.25 gm. | 12 | 16 2 | 24 3 R |
| 100 | 128 6 | 192 9 | R |
| 1,000 | 1,241 6 | | |
| dusting powder | 5-gm. | 58 0 | 7 3 R |
| ear drops | 5-c.c. | 76 0 | 9 6 R |
| eye ointment | 4-gm. | 18 0 | 2 3 R |
| for eye drops | 56 0 | 7 0 | R |
| Prices of other Alficytyn preparations are unchanged. | | | |

| | | | |
|--|-------|-------|--------|
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| 100 | 128 6 | 192 9 | R |
| Veterinary Alficytyn buffered | 56 0 | 7 0 | R |
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| eye ointment | 4-gm. | 18 0 | 2 3 R |
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| 100 | 30 0 | 45 0 | R |
| 0.5 mgm. in 1-c.c. | 6 | 56 0 | 7 0 R |
| 100 | 60 0 | 90 0 | R |
| tablets 0.25 mgm. | 25 | 7 2 | 10 9 R |
| 100 | 26 8 | 40 0 | R |
| 500 | 116 0 | 174 0 | R |
| 0.5 mgm. | 25 | 13 0 | 19 6 R |
| 100 | 50 0 | 75 0 | R |
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| 2-in. x 5-yd. | 32 0 | R 4 0 |
| 3-in. x 5-yd. | 44 0 | R 5 6 |
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PHARMACY AND MEDICINE IN THE SOUTH SEAS

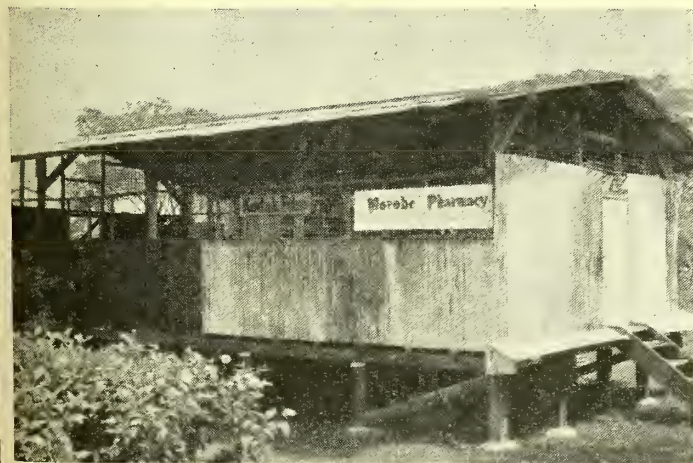
Pictures taken recently, and notes by Mr. K. E. White, M.P.S., formerly of The Pharmacy, Ripley, Surrey.



The dispensary of the Native Hospital, Honiara, Guadalcanal, British Solomon Islands, administered by the Crown Agents for the Colonies carries an up-to-date and comprehensive stock of medicaments. The window to the right of the door is of the tablet store. Right: The pharmacist-in-charge, Mr. Bob Barnsfather, attends to his wood-fired still built alongside the dispensary.



Surgical Ward of the hospital. Right: A ward used for cases of poliomyelitis in Guadalcanal in an outbreak in 1951. The building was erected by American Armed Forces during the 1939-45 war.



Left: Morobe pharmacy outside Lae, New Guinea. Right: Witch doctors photographed in a village in the highlands of New Guinea, near to the Dutch border.

V PARTICLES. — Workers at the Brookhaven National Laboratory, Upton, New York, U.S.A., are reported to have created V particles, which may hold the key to a greater understanding of the atom. The work follows a discovery by physicists in Manchester, England.

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| 4 oz. Bottles | 8/- | — | 7/6 | 7/3 | 7/- | 6/9 |
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Pharmacy and the Standing Advisory Committee

It is a point to note that the Standing Pharmaceutical Advisory Committee of the Central Health Services Council, like the majority of the members of the Pharmaceutical Society present at Branch Representatives' discussions, takes a less optimistic view of the manpower situation than that held officially by the Society, and has reported to the Minister accordingly (p. 129). The Committee expressed the hope that the shortage would not be progressive, and the hope is being fulfilled in the numbers entering the profession.

The report is informative in other ways also. On the technical side a move to eliminate the causes of accidents in the administration of injection solutions comes appropriately from a Committee representing the health workers who administer the solutions. The subcommittee which has been appointed to examine the position, and which numbers amongst its members a hospital pharmacist, is faced with the unenviable problem of drafting a code of practice in that field. Such a code will have advantages, though no safety measure, of course, can compensate for failure to read labels. Nor can any code be universal. Doctors outside the National Health Service would not be covered by it, and the very existence of "safety measures" may tend to discourage the proper reading of labels, failing any steps to counteract the tendency. The question arises whether the pharmaceutical representation on the subcommittee is strong enough to carry those points.

Taxation of Partnerships

THE taxation of partnerships, or rather of persons carrying on a partnership, has in the past produced anomalous results, and in some cases real hardship. The Finance Bill recently before the House of Commons introduces certain changes. For tax purposes a partnership is assessed, like persons carrying on a trade or business or profession, on the profits it has made. The tax for the current year is computed on the basis of the profits made in the previous year. But each partner is liable to tax on his proportion of the total profits. It is, however, the proportions of the partners' share ruling in the year of assessment that determines their tax liability, notwithstanding that, in the year in which the profits (taken as the basis of assessment) were earned, different proportions applied. Thus, if profits in the year 1952, amounting to £12,000, were shared

equally by A and B, but in 1953 when the profits were £6,000, the proportions were altered to two-thirds for A and one-third for B. A would receive in cash from the business in 1953 two-thirds of £6,000 (£4,000) and B would receive £2,000. But the assessment to tax for the year 1953, which would be based on the profits of £12,000 earned in year 1952, would be two-thirds of £12,000, = £8,000 to A and £4,000 to B. The rule of assessing the tax liability of partners according to the proportions to which they were entitled in the current year of assessment could work harshly, in the case of a new partner. For example, if, in the imaginary partnership referred to, C became a new partner in 1953, A, B and C all sharing equally, C would receive in cash in 1953 one-third of £6,000 (the profits earned by the partnership in 1953), but would be assessed on one-third of the profits earned in 1952 (£12,000).

One way out of the difficulty was to have the old partnership treated as having ceased business on the change in the constitution of the partnership, and a new business as having been commenced from the taking on of a new partner. But there were disadvantages in that course, inasmuch as allowances and losses could not be carried forward. Accordingly the old partners were not too willing to join in signing the form that had to be signed by all the partners, if the cessation provisions were to apply. Some of the peculiarities of the tax law on the other hand were distinctly to the benefit of partnerships. The celebrated case of *Osler v. Hall* had the result of showing that tax could be saved by making two changes in the constitution of the partnership within a short period, and then giving notice of election of cessation on the occasion of the second change.

Under the new law advantage can no longer be taken of the rule in *Osler v. Hall*. There is now automatic cessation of the old partnership business when any change occurs in the constitution of the partnership, whether by the introduction of a new partner or by the death or retirement of any of the old partners. If the operation of the new law is not desired, all the partners, both before and after the change, can give notice requesting that the new provisions shall not apply. For the notice to be effective, all must sign. Under the new provisions, allowances and losses may be carried forward and set off against the profits of a new business. Thus, one of the reasons for fighting shy of the cessation provisions has been removed.

A PHARMACIST'S ANTHOLOGY

THE same principle—using the kind word—is potent in all human relationships. In my boyhood, a new pharmacy opened in our neighbourhood, and old Mr. Barlow, our skilled and long-established chemist, was outraged. He accused his young rival of selling cheap drugs and of being inexperienced in compounding prescriptions. Finally the injured newcomer, contemplating a suit for slander, consulted a wise lawyer. "Don't make an issue of it," the lawyer advised. "Try kindness." Next day, when customers reported his rival's attacks, the new chemist said there must be a mistake somewhere. "Mr. Barlow," he told them, "is one of the finest chemists in this town. He'll mix an emergency prescription any hour, day or night, and the care he takes with them sets an example for all of us. This neighbourhood has grown—there's plenty of room for both of us. I'm taking Barlow's shop as the pattern for mine." When the older man heard these remarks—because compliments fly on the winds of gossip quite as fast as scandal—he could not wait to meet the young fellow face to face and give him some helpful advice. The feud had been wiped out by sincere and truthful praise.—From "*There is Magic in a Word of Praise*," by Fulton Oursler.

Onward from Galen

A CURRENT CAUSERIE

LIQUID extract of liquorice as an expectorant and flavouring agent, powdered liquorice as an absorbent pill excipient, black liquorice juice for "Spanish Water"—all are familiar enough uses of liquorice to the pharmacist. Less well known will be some of the applications made by industry in the United States. There, according to the president of a company interested in the marketing of liquorice, more than 100 firms in fourteen different fields are looking to that crude drug and its derivatives for improved and new products or processes. Already industry is obtaining structural insulating board and fire-fighting foam from the spent root after extraction of the edible product. Although more than 90 per cent. of liquorice used in that country is in tobacco blending at the present time the long list of uses (or contemplated uses) mentioned include the following:—Flotation agent for separating ore from waste; rubber-latex stabiliser; and as an ingredient in detergents; "root beer"; agricultural sprays; and cosmetics. It is also being considered as a flavouring for envelope flaps.

★

"It is said," writes a commentator in a recent issue of the *Lancet*, "that the legislation requiring poisons to be kept in fluted bottles was passed as a result of a man's taking photographic developer in mistake for cough mixture many years ago near Birmingham." The use of bottles "recognisable by touch" has undoubtedly been a commendable practice, but if its origin was in fact attributable to photographic developer the stock cupboard of a photographic dealer is a silent irony, for what liquid developer today is issued in a fluted bottle? Metol and hydroquinone are not statutory poisons, and there is little call to make them so, even if, as the *Lancet* commentator points out, poisoning with hydroquinone is serious and metol has claimed its first victim recently—a man partly engaged in packing the chemical into kegs. The original purpose is, in fact, the better served in that the tactually recognisable bottle is reserved for statutory poisons. Or is it? Does not the use of polygonal, embossed and ridged bottles for innocuous fluids such as sauces and soft drinks weaken the respect for poison bottles? From time to time it is salutary to get back to first principles in these matters.

★

ONE gathers that the *Lancet* rather pooh-poohs the precautions taken by the Food and Drugs authorities, especially in London, to make sure that shellfish are reasonably free from the risk of causing food poisoning when they reach the consumer. "Is it possible," it asks, "that oysters on an empty stomach, laced with lemon juice and cayenne and tabasco, to say nothing of a little Chablis, whip up our gastric secretions to a pH which few bacteria will survive?" That is possible, but it is more probable that the fewness of cases of poisoning traceable to oysters is a result of the vigilance of the authorities, plus the high standards of traders who know that their continued prosperity depends on the clement of branding present in the use of the names Colchester and Whitstable for their wares. Had those factors not been present, who knows but what the oyster might not be responsible for as many cases of "food poisoning of a non-specific type" as is, apparently, the more plebeian cockle, described as well suited to the multiplication of bacteria in warm water, and now—at Southend—the subject of hygiene measures agreed between the local authority and the trade. The fact is, as recent occurrences have shown, that measures of hygiene need to be much more widely applied before standards can be regarded with any complacency.

★

ALTHOUGH pharmacy students faced with a detailed pharmacuetics syllabus may feel that there is more than enough literature on the history of pharmacy, the complete history of the subject has still to be written. The subject is dealt with in pharmacuetics courses, but the subsection of pharmacognosy is equally bound up with pharmaceutical tradition and appropriately a history of pharmacy committee has been set up by the pharmaceutical society of Nottingham University, where the head of the pharmaceutical department is that foremost pharmacognosist, Mr. G. E. Trease, who has shown himself to have a more than casual interest in pharmaceutical history. The committee is collecting information on the subject and anyone with data to offer is asked to send it to the secretary of the committee at the University.

★

MORE information on the usefulness of antibiotics in animal feedstuffs has been released in the publication of a report by the Agricultural Research Council describing studies organised by the Council of the effect of penicillin and aureomycin in pig feedstuffs. Observations were made on more than 500 fattening pigs in various parts of the United Kingdom. The dose of penicillin (as procaine penicillin) was usually 15 gm. per ton of ration, and that of aureomycin 14.4 to 28.8 gm. per ton. Vitamin B₁₂, 15 mgm. per ton, was usually included with each antibiotic. The supplement brought about an improvement in the rate of live weight gain and in food conversion efficiency. There was little difference in the effect of either antibiotic. The increase in daily live weight gain averaged about 10 per cent. in pigs on a diet that included fish meal, and about 14 per cent. in pigs on a diet of vegetable protein only. The improvement in food conversion efficiency averaged between 6 and 7 per cent. with both diets. The antibiotics did not differ significantly in their effect and they had no effect on carcase quality. An experiment with 208 litters of sucking pigs gave indications of a beneficial effect on the weaning weight, but the results were not statistically significant. The report (A.R.C. Report Series No. 13) is obtainable from H.M. Stationery Office, price 1s. 6d.

★

EXPORTERS, through their trade bodies, acknowledge the need for the Government to enter into bilateral trade agreements, both to obtain scarce materials and to secure satisfactory export quotas. They have, however, criticised the Government's procedure for negotiating the agreements. The complaints made are that insufficient time has been given for adequate consultation between Government and industry; that not enough has been said about why expectations have sometimes been disappointed; that there has not been sufficiently close contact between industry and negotiators; and that the passing of details of quotas, etc., has been too slow. A committee set up under the chairmanship of the Secretary for Overseas Trade to examine the procedures of consultation with industry heard evidence from a number of trade associations, including the Association of British Pharmaceutical Industry. The committee has now published a report (Report of the Bilateral Trade Negotiations Committee, H.M. Stationery Office, price sixpence) in which it makes a number of recommendations on this "small" field of export trade. The main proposal is that a trouble-chasing standing committee of exporters representatives should be appointed to ensure that arrangements for consultation are carried out smoothly, quickly and effectively. Organisations to be represented are the Federation of British Industries, National Union of Manufacturers and Association of British Chambers of Commerce.

Properties and Identification of SOME NEW ARTIFICIAL FIBRES

with a note on their applications to surgical dressings

BY JEAN R. MORRIS, B.PHARM.

(Pharmaceutical Department, University College Hospital, London)

ALTHOUGH for many years the raw materials for the manufacture of surgical dressings were naturally occurring fibres, rayon has now been introduced into a British Pharmaceutical Codex dressing oiled rayon, and has undergone clinical trial in various dressings (Fairbairn and Whittet, *Pharm. J.*, 1951, March 3, p. 161). The present paper deals with the investigation of artificial fibres known commercially as Terylene and Ardil, which may possibly be used in dressings. The fibres have been developed recently by Imperial Chemical Industries, Ltd. Terylene is a purely synthetic polyester-type product, similar in many ways to Nylon; Ardil is prepared from natural proteins and is similar to wool.

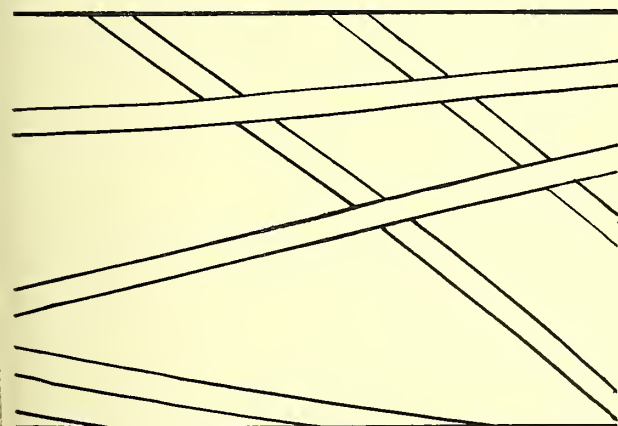
Terylene

Terylene was elaborated between 1939 and 1941 in the Calico Printers' Association laboratories and later developed by the plastics division of Messrs. I.C.I. It is a condensation product of ethylene glycol and terephthalic acid and is a hard, almost white, substance. Melting at 260° C., it can be extruded and drawn into fine filaments, circular in section, smooth and lustrous. The filament and yarn-deniers can be widely varied, but the tenacity and lustre of the continuous filament can only be controlled

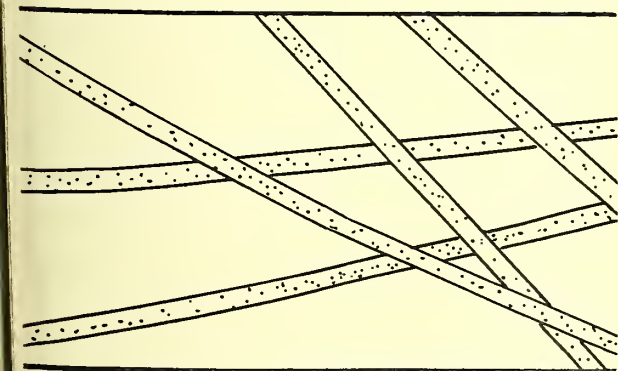
over a more limited range. Staple fibres have been made in a variety of forms for various textile processing systems and, although they are not being manufactured on a large scale yet, experimentally produced fabrics are wool-like in appearance. Physically the filament type compares well with other fibres, having the same specific gravity, dry tenacity, extension at break, ratio of wet tenacity to dry tenacity, and work of rupture as Nylon, with a higher moisture resistance and lower stretch. The chemical reactions and identification tests are summarised in the table (p. 144). These show its high resistance to organic and mineral acids, oxidising agents and organic solvents. It is attacked by phenols and by alkalis, especially when concentrated and at a raised temperature. It is resistant to abrasion, heat, light and weather, sea water, micro-organisms, and insect pests. Terylene, as manufactured, shrinks in boiling water and air at high temperatures, the amounts varying up to 18 per cent., but "dimensionally stable" fabrics can be made, the textile processing not involving great difficulties.

Ardil

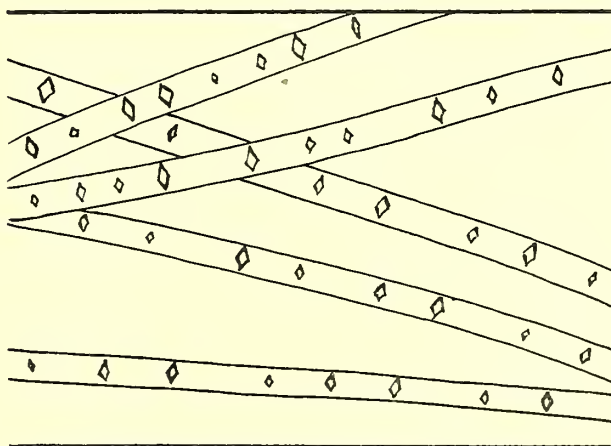
The starting material of the production of Ardil is oil-extracted groundnut (*Arachis hypogaea* L.) meal. Fifty per cent. of the meal is protein, which is extracted with dilute alkali. The protein is purified by being precipitated with acid and redissolved in dilute caustic soda. Fibres are precipitated by extruding the solution through fine-holed spinnarets into an acid coagulating bath and dried after treatment with formaldehyde. Both the diameter and length of the fibres can be controlled easily. Ardil is manufactured only in the staple form and is like wool in physical properties. Its moisture regain and specific gravity are similar and its high elongation at break, complete resistance to moths, high resistance to mildew and lower inflammability are an improvement on those of wool. In contrast to wool, however, it has a smooth surface, which means that it does not shrink so easily, nor will it mill unless mixed with wool. Other of its physical properties can be altered to a certain extent but they are sometimes interdependent, as for instance increasing its water absorption decreases strength. The chemical reactions and identification tests



Ardil x 200 (approx.).



Terylene mounted in water x 200 (approx.).



Ardil in concentrated sulphuric acid x 200 (approx.).

| TEST | TERYLENE | COMMENT | ARDIL | COMMENT |
|--|---|---|---|--|
| Ignition. | Ignites with difficulty. Self-extinguishing. Melts and burns with yellow, blue-edged flame and heavy aromatic odour. Residue is black bead. | Rayon not self-extinguishing. Cellulose leaves grey ash. | Ignites fairly readily. Self-extinguishing. Odour of burnt cheese. Residue is black ash. | Silk and wool are similar. Hair and casein not self-extinguishing. Casein has odour of burnt cheese. Hair has odour of burnt hair. |
| Microscopy of aqueous mount. | Dotted appearance. Cylindrical. | | Clear. Cylindrical. No scales. | Wool has scales. |
| Cold conc. HCl | Insoluble. | Nylon soluble. | Stains purple, decolorises on rinsing. This is repeatable indefinitely. Insoluble at 40°. | Wool insoluble, but swells. Natural silk soluble. |
| Conc. H ₂ SO ₄ | 80 per cent. cold, insoluble. 80 per cent. boiling, soluble. | Cellulose acetate and Nylon soluble cold. Vinyon insoluble. | Transient diamonds appear on long axes in one minute. (See diagram.) | Silk is soluble. |
| Conc. HNO ₃ | Soluble when hot. | | Swells and becomes slightly yellow. No bubbles formed. | Wool swells and stains yellow. Bubbles formed. Silk swells, not disintegrating. |
| Hot dilute HCl | | | Formaldehyde is formed. | |
| Dilute HNO ₃ then NaOH, 70°C. | | | Insoluble. Xanthoproteic reaction. | Wool and silk similar. |
| 18 per cent. NaOH | Soluble. | | Soluble. | Wool swells and is soluble. |
| 5 per cent. NaOH | Not appreciably soluble for short periods. | | Dissolves partially and gelatinises. | Wool soluble in one minute. Silk soluble in two minutes. |
| Conc. phosphoric acid boiling. Cold 98 per cent. formic acid. | Insoluble. Insoluble. | | Soluble. | |
| Acetone | Insoluble. | Cellulose acetate soluble. | | |
| Millon's | Negative. | Non-protein fibres negative. | Red brown. | Non-protein fibres show no colour. Protein red brown. |
| Boil with 10 per cent. NaOH; acidify Add ammonia To solution add BaCl ₂ soln. | Dissolves. Terephthalic acid precipitated. Acid redissolves. Barium salt is precipitated. | | | |
| Alkaline lead acetate. | No colour. | | Slight brown because low cystine and therefore low sulphur content. | All animal fibres except silk are brown. |
| Picric acid. | No permanent stain. | Cotton and rayon not stained. | Permanent yellow stain. | Wool permanent stain. |
| Indigo carmine. | No permanent stain | | Pale blue stain. | Casein deep blue. Wool pale blue. |
| Cuoxam. | Insoluble. Not stained. | Cellulose acetate stains and is soluble in five minutes. | Stained blue. Slight swelling. Insoluble. | Silk and cotton soluble and swells. Wool stains blue, swells slightly; insoluble. |
| I ₂ solution in glycerin and H ₂ SO ₄ 2 vols: 3 vols. | Unstained. | Cellulose acetate and nylon stained brown. | Stained red. | Cotton stains blue. |
| 90 per cent. phenol | Dissolves and swells on warming. | Nylon soluble when cold. | Soluble. | |
| Shirlastain A | Not stained. | Cellulose acetate stains green/yellow, Nylon yellow/brown. | Stains orange/yellow. | Wool yellow cold and brown on heating. Silk stains brown. |
| Shirlastain C | Not stained. | Cuprammonium rayon mauve, viscose rayon yellow/green. | | |
| Beilstein copper test | Colourless flame. | Vinyon and vinyl chloride green due to halogen. Wool dipped in HCl green. | Colourless. | |

tabulated opposite show its resistance to acids, oxidising agents and organic solvents. Although attacked by alkalis it is more resistant than wool. Ardil mixed with cotton or viscose rayon makes a warmer, softer fabric and mixed with wool combines the good points of both materials. Its cost is much lower and more constant than that of wool.

Terylene and Ardil have not so far been used to replace cotton in surgical dressings, but Ardil could be used instead of wool in crêpe bandages and flannel. As Terylene is non-absorbent it may be used in the future in burn treatment, in non-absorbent dressings — batiste, jaconet, tulle gras, adhesive plaster, oiled materials, non-absorbent cotton wool and elastic bandages. Its ease of washing may make it easier to use for such articles as slings. In the *British Medical Journal*, 1953, February 28, p. 499, a recommendation on the use of non-absorbent dressings was made. They are unwettable and permeable, and therefore keep the skin

dry, which allows of more rapid healing. Dressings of Terylene and Ardil would be easily stored (as they are not attacked by insects or micro-organisms) and easily sterilised, but experiments would have to be done to determine loss of efficiency and possible chemical reactions in the presence of phenolic and alkaline disinfectants. The most outstanding properties of Terylene and Ardil respectively are their durability and wool-like nature. As those properties are not necessary in surgical dressings it seems that, except in the examples mentioned, the fibres will be of no great use in the dressings field unless there is a major change in present techniques.

ACKNOWLEDGMENTS

I wish to thank Mr. T. D. Whittet, chief pharmacist, for suggesting this work and for advice in preparing the paper; also Imperial Chemical Industries, Ltd., for samples of Ardil and Terylene.

BIG PROFITS OUT OF N.H.S.?

The fact that a Government inquiry into manufacturers' prices for the supply of medicines under N.H.S. has been ordained suggests that excessive profits have been made. A student of finance examines the net profits of four public companies during the five years of the Service.

SINCE 1948, the year of the inception of the National Health Service, the net profits of four well-known companies catering for it in varying degrees have varied as in the table:

| | YEAR ENDING | NET PROFIT |
|---------------------|-------------------|------------|
| Allen & Hanburys | June 30, 1948 | £167,500 |
| | do. 1949 | £100,300 |
| | do. 1950 | £47,200 |
| | do. 1951 | £131,400 |
| | do. 1952 | £134,900 |
| Beecham Group | March 31, 1948 | £554,000 |
| | do. 1949 | £448,000 |
| | do. 1950 | £491,000 |
| | do. 1951 | £525,000 |
| | do. 1952 | £483,000 |
| Boots Pure Drug Co. | March 31, 1948 | £784,000 |
| | do. 1949 | £875,000 |
| | do. 1950 | £977,000 |
| | do. 1951 | £1,086,000 |
| | do. 1952 | £958,000 |
| | do. 1953 | £1,225,000 |
| British Drug Houses | December 31, 1948 | £66,500 |
| | do. 1949 | £116,300 |
| | do. 1950 | £178,000 |
| | do. 1951 | £244,000 |
| | do. 1952 | £156,000 |

From the above—the latest figures available—the net profit figure for Boots Pure Drug Co., Ltd., the first from the four companies to be issued in 1953, covers only the first three months of 1953—it will be seen that the trend has been irregular.

In his address to shareholders covering the profit figure for 1949, the chairman of Boots Pure Drug Co. stated that the inauguration of the National Health Service the previous July had been an outstanding event for the company, as it had led to a vast increase in dispensing and the demand for drugs. Staff had had to be taken away from other important work in order to keep dispensing going, and sales would have been even greater had the staff been available to fill all the orders. Another point he made was that, as a result of the National Health Service, the company had all the time owing to it by the

Ministry of Health an amount of at least £600,000. That figure had to be financed by the company, and largely accounted for the sum shown in the balance sheet as owing to the company's bankers.

The chairman furthermore repeated his observation of the previous year that it had not been possible, in the time available, to make all the alterations needed to provide the dispensing service they would have liked to give under the National Health Service. Since licences had been available, the company's shopfitting department had been working to capacity altering and enlarging dispensaries. They still, however, had much to do. During the first year of National Health Service, "providentially," he said, there had been no abnormal amount of sickness.

The chairman's speech in the following year recorded that a record figure had been reached in prescriptions dispensed, i.e., over 33,000,000. The method of payment was still causing trouble. The £600,000 owed by the Ministry of Health the previous year had increased to £700,000 at March 31, 1950.

In 1951 it went still higher, to £1,170,000. There had been a good deal of sickness during the previous winter, and the chairman of the company expressed the view that, had the company not spent such a large sum of money on expanding the number of its dispensaries, it was difficult to see how the increased business could have been handled. The National Health Service was not mentioned in the 1952 report, but in 1953 the amount owing by the Ministry of Health had passed its peak, though it still exceeded £1 million. Having regard, however, to the increase of general business the position was regarded as more satisfactory than previously. Increasingly severe competition in the export field was being encountered from Germany and other Continental countries and, for the first time since 1939, prices had moved downwards.

In July 1948 the chairman of The British Drug Houses, Ltd., anticipated the advent of the National Health Service, noting that the re-equipment and modernisation of the company's London factory, which was still responsible for the greater part of production was expected to be practically completed in the course of the year. It was hoped that it would enable the company to play its full part in supplying the increased quantities of medicinal and pharmaceutical preparations that were thought likely to be required as a result of the introduction of the National Health Service.

In 1949, the chairman recorded that the arrival of the National Health Service had caused an appreciable increase in demand during the second half of the year. The past experience of the company had been that the demand for pharmaceutical and medical products, in the domestic market, had tended to be only slightly affected by swings in the trade cycle—although profit margins had narrowed and widened somewhat during the downward and upward swings.

Further comments on the National Health Service were that industries such as theirs, which were subject to keen competition and narrow over-all profit margins, could be gravely disturbed by the sudden changes in demand that might result from alterations in the Government's policy. Re-equipment and modernisation of their London factory had enabled them to meet the increased demand arising from the National Health Service. The report for 1950 stated that the increased demand mentioned in 1949 had been maintained, but that the margin of profit on that side of the business was small. The company was aware of the desire of the Ministry of Health for economies in the National Health Service. Whatever economies were instituted, however, could hardly be, in the chairman's view, at the expense of the use and the development of therapeutic agents that were the outcome of scientific research.

The results for 1951 showed another new high record in the sales of the company. Export results of the London factory, which manufactured medicinal chemicals and preparations, rose by 25 per cent., whilst domestic sales (covering that part of their sales which came under the National Health Service), increased by 5 per cent. A flattening out of the demand for the company's products was considered natural once the Service had established itself.

1952 for the B.D.H. was a year of sharp reaction from a steadily firming profit increase that had been evident since the inception of the National Health Service. The profit reaction was more pronounced than the sales reaction, as sales fell by only about 5½ per cent. The sales decline was confined to medicinal chemicals and preparations, the corresponding figures for laboratory and industrial fine chemicals being slightly higher.

Factors in the profit decline were further rises in wages and salaries, which narrowed margins, and price reductions necessitated by intensified competition. The National Health Service was mentioned on the lines that a large part of the company's home sales of medicinal products were paid for, either directly or indirectly, through the Service. The company was consequently, like the rest of the industry, but to an exceptional and peculiar degree, at the mercy of the State and the policy that might be followed by the Ministry of Health. Margins, as the year's results clearly showed, were narrow. And out of them taxes had to be paid, reserves built up and shareholders rewarded. Should margins be further narrowed, said the chairman, the company's ability to continue their present rate of expenditure on research and development would be threatened. Yet that expenditure, considerable though it was by British standards, was quite inadequate when compared with the amounts which the larger American pharmaceutical companies devoted to similar ends. Other points made were that the Ministry of Health was now engaged in investigating the costs of a number of the main products being bought through the National Health Service. The inevitability of the inquiry into prices, and the duty of the State to satisfy itself that it was receiving value for money, were appreciated. The hope was expressed that, in the performance of that duty, the State would not take any narrow or short-term view of what was in the best interests of the community.

Only slight references to the National Health Service were made by the chairman of Beecham Group, Ltd., during the period 1948 to 1952. At the meeting held in September 1949, in reviewing the results for the year ended the previous March, the chairman commented that the

effect of the National Health Service on the company's business had been expected to prove adverse, but no evidence that that had been so had come their way so far. The attention the company had paid during the previous few years to the formulation and marketing of ethical lines would show itself during the year in the marketing of two such preparations.

Mention of the National Health Service by Allen & Hanburys, Ltd., in its company reports was scanty. At the meeting held early in January 1950, when business for the year ended the previous June was discussed, members of the company were told that the practice of medicine during the previous ten years had made marked headway, and the company had taken pains to keep pace with new developments. No doubt was entertained that further adjustments could be made in the future with equal success. They were aware of a world-wide demand for their large range of products, pharmaceutical, dietetic and surgical, of the world's becoming more health conscious, and also that the part to be played by manufacturers and wholesalers such as themselves was not yet completely defined.

The report for the year ended June 1951 gave sales figure as the highest ever, but attributed that result to increased efficiency (and consequently a larger volume of business), the introduction of new products, and increased prices. A new product was described as having proved possibly more popular than expected, but the sales of some of the older ones had gradually fallen off reaching a point at which the production of the item concerned must be discontinued.

The report for the year ended June 1952 gave home sales as slightly and export sales as substantially higher. The company's activities in medicinal specialities prescribed and used by the medical profession were reported as forming a progressively larger part of the business.

CORRESPONDENCE

DENIAL OF TRADING FACILITIES

SIR.—I would like to draw the attention of pharmacists to the continued withholding by the British Oxygen Company of facilities for the pharmaceutical distribution of medical gases to the dental profession. This company holds a monopoly in medical gases, and to continue its policy of denial of reasonable trading facilities warrants the consideration of pharmaceutical organisations and the Monopolies Commission. Would pharmacists opposed to such trading irregularities raise the matter at Branch meetings?

BRADFORD

ERIC ROBINSON

CATEGORIES OF ETHICAL PROPRIETARIES

SIR.—The bold headline "NOT FOR PRESCRIBING UNDER N.H.S." on p. 76 of your issue of July 25, though in accordance with the Ministry's advice, may have inadvertently given the false impression to your readers that the products in Categories 5 or 6 will automatically cease to be used in the National Health Service. Paragraph 4 of the Cohen Committee's Second Interim Report states:

"From the outset we were agreed that wherever our discussions might lead us there should be no absolute restriction on the prescribing by a general practitioner of any drug which in his opinion was necessary for the treatment of his patients. This meant that if we were to recommend that certain drugs should not be prescribed by a practitioner, he would still be at liberty to prescribe them; or if a list of 'approved' drugs were drawn up, the practitioner could still prescribe drugs not on this list. In either case, however, he might have to justify his action before his colleagues on the Local Medical Committee. This freedom of prescription was a fundamental assumption throughout our discussions."

Prescribers' reactions will, of course, vary, but there is every reason to expect that the prescription of many products in those categories will continue where doctors have found the preparations effective, and indeed the Ministry's covering letter re-emphasised the prescribers' liberty of action.

LONDON, W.C.1

GORDON SMITH, Secretary

ASSOCIATION OF BRITISH PHARMACEUTICAL INDUSTRY

ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

16. DIABETES MELLITUS

THERE are two diseases which have the general heading of diabetes: *diabetes insipidus* and *diabetes mellitus*. The former is the result of a dysfunction of the pituitary gland, the latter of the pancreas, and it is with the latter that this article is concerned. In the same way as little has happened in the past few years with regard to the pharmacy and therapeutics associated with the thyroid until quite recently, little has occurred to alter the treatment of diabetes since Hagerdonn devised protamine insulin in 1936. Within the next month or two new forms of insulin will become available on a commercial scale, and it is therefore not out of place to revise one's knowledge of the condition known as diabetes mellitus.

Historically, diabetes has been known for many generations and until the discovery of insulin by Banting and Best in 1921 treatment was at best palliative. In the majority of cases the disease progressed to coma and death. The immediate cause of diabetes is insufficiency of insulin, but the lack of that hormone can be produced in a variety of ways. It is well known that insulin is secreted in the cells of the pancreas in areas known as the islets of Langerhans. An insufficiency of insulin can be produced by subnormal activity of these cells, an actual destruction of the cells, or finally the absence of some or all of the islets. In turn the deficiency in the secretion activities of the cells may be a reflection of a dysfunction of another endocrine gland such as the pituitary, thyroid or suprarenal, while the destruction may be the result of a diminished blood supply due to arterio-sclerosis or some other deficiency in the cardiovascular system. Toxic substances can act upon the pancreas causing destruction of the cells, and finally there is no doubt that, as in the case of the thyroid, violent emotional upsets can precipitate the condition, though whether diabetes is a direct or an indirect result of the emotion is difficult to say. Diabetes is unquestionably a hormone dysfunction and infection does not play any part in its production. The condition is frequently diagnosed as a result of an acute infection in a patient, but that can be explained by the fact that diabetics do not offer the same resistance to infections as do normal individuals, and when a patient is not responding in a normal manner to an acute infection, physicians suspect and look for some complicating factors, of which diabetes is one of the commonest. There is no doubt, either, that heredity plays a part in the evolution of diabetes and, if the family history of the patient is studied carefully, one does not usually have to go further than a cousin or second cousin to find another case. It is a common condition in that it probably exists in about 1 per cent. of the population, and there can be few people who cannot count a diabetic as one of their closer friends. The incidence of the disease occurs at all ages, but above the age of forty there are at least two cases to every one under the age of forty. Generally speaking the greater the age at which the disease makes its appearance the less severe the result. Obesity, or more exactly adiposity, is certainly a factor to be considered, and the disease has a far greater incidence in those who are overweight than on those who are normal or of the "lean" type.

The effect of a lack or deficiency of insulin is that the body is unable to store the normal amount of carbohydrates as glycogen in the liver and muscle tissues. Furthermore the tissues are unable to utilise completely the carbohydrate material in the production of energy. Even in the absence of insulin injections, that disability is not insuperable in every case, because energy can be produced by the breakdown of proteins and fats. There is a limit, however, to the extent to which carbohydrates can be replaced by proteins and fats, because in the breakdown of the latter substances ketones are produced and, when the concentration of these in the blood reaches a certain level, toxic reactions occur and a condition known as ketosis exists. It is possible, however, to control some of the milder cases by diet alone, and the principles upon which the diet is based depend upon the provision of carbohydrates to the maximum tolerated level and the production of subsequent energy by means of fats and proteins.

Diagnosis

Diabetes mellitus presents many symptoms and signs, some or all of which may be present in every case. The diagnosis does not rest solely upon any one physical sign or symptom. The commonest symptoms of which the patients complain are thirst, frequency of micturition, pruritus, which may be generalised over the whole body surface but which is usually most marked around the urethral orifice, blurred vision, loss of weight, lassitude and general tiredness and in the more severe cases drowsiness. In some cases the patient will complain of neurological symptoms and there may be neurological signs as well. The main physical signs are a smell of acetone in the breath, and, more important, the presence of sugar in the urine with or without ketones. Sugar in the urine is a condition known as glycosuria, but the presence of glycosuria, particularly in the absence of other physical signs and symptoms is not diagnostic of diabetes. The normal blood sugar level is 80-120 mgm. glucose per 100 c.c. of blood, and when the concentration reaches 180 mgm. per 100 c.c. sugar appears in the urine. A blood-sugar level of 180 mgm. is therefore the normal renal threshold for sugar. In some people there is a lower renal threshold, and in such cases glycosuria may appear in the absence of diabetes. When glycosuria is discovered, therefore, at a routine medical examination for insurance or superannuation purposes or before employment in certain jobs, it is customary to question the patient concerning diabetic symptoms, and in many cases to determine the blood-sugar level. In most cases, however, which are likely to require insulin treatment the patient usually complains of one or other of the symptoms and their presence, together with that of glycosuria, is sufficiently diagnostic to determine the existence of diabetes mellitus.

Laboratory aids to diagnosis include, of course, urine analysis and a determination of the concentration of glucose in the blood. Urine analysis is normally done by means of Benedict's solution, which is more selective to sugar than other reducing substances such as Fehling's solution. If the test is performed accurately, Benedict's

solution also gives some indication of the quantity of glucose in the urine. It has the practical disadvantage however (which it shares with Fehling's) that measuring exact quantities of urine and reagent and placing them in the test tube is tedious and troublesome. The solutions are also strongly alkaline, and they have a tendency to spurt out of the test tube when the mixtures of reagent and urine are boiled. The results depend, moreover, to a certain extent upon the duration of the boiling, and tend, therefore, to be variable. The recent introduction of tablets, which are usually covered by patent rights, to replace Benedict's solution was an advance, even if the expense is slightly greater. The tablet provides a definite amount of reagent and with a standard dropper one can easily provide a standard amount of water (10 drops) and urine (5 drops). Furthermore it is not necessary to boil the reagents over a bunsen flame because once the ingredients are mixed they generate sufficient heat on their own. Tablets thus provide standard results and overcome the difficulties of boiling and remove the necessity of measuring quantities of solutions, which is essential in the absence of test tubes of a standard diameter. Blood sugar determinations are usually performed under standard conditions. One may make a single blood-sugar analysis at a routine examination of a suspected case and use it as a guide, but when about to stabilise a patient on insulin it is cus-

tomary to make a series of blood-sugar determinations. To do this the patient is starved for about twelve hours before the test begins. At the commencement of the test the bladder is emptied and a sample of blood taken from a vein in the arm. An amount of 50 gm. of glucose is then given and urine and blood samples taken at half-hourly intervals. Following the ingestion of the glucose there is a rise in the blood-sugar level, and that is reflected in subsequent samples. In a normal individual the blood-sugar returns to its normal levels within one and a half or two hours, but in a diabetic the return to the pre-test level is more prolonged. That prolongation is diagnostic of diabetes mellitus.

In this article the causes and diagnosis of diabetes mellitus have been discussed. Space demands that discussion of the stabilisation of the diabetic, his limitations and the effects of insulin be left until the next article. Sufficient has been said, however, for it to be realised that there is more than one cause, and that, until the exact cause can be determined in each individual, and then removed, treatment of diabetes must consist of diet and the replacement of the deficiency of insulin, which is the ultimate effect of all the causes. So long as treatment is based upon replacement of a deficient and expendable substance such as insulin, there can be no cure—merely a remedy to relieve the existing condition.

RECENT RESEARCH

A NEW TYPE OF PENICILLIN

ABRAHAM and others (*Nature*, 1953, 171, 343) report that a species of *Cephalosporium* has been found to produce a substance or group of substances (cephalosporin N) insoluble in organic solvents and active against a number of gram-positive and gram-negative organisms. For the following reasons the authors believe that cephalosporin N is a type of penicillin:— 1. It is inactivated by penicillinase in high dilution and stimulates the production of that enzyme by *Bacillus cereus*. 2. It is inactivated by heavy metal ions. 3. Acid hydrolysis of the purified material resulted in the evolution of carbon dioxide; mercuric chloride precipitates a mercaptide from the hydrolysate; decomposition of the mercaptide with hydrogen sulphide and subsequent reaction with acetone yields isopropyl-idenepenicillamine hydrochloride. Cephalosporin N differs from benzylpenicillin in antibacterial activity: it is equally active against *Staphylococcus aureus* and *Salmonella typhi* whereas benzylpenicillin is more than a hundred times as active against the former as against the latter.

POLYMYXIN INACTIVATED BY MAGNESIUM

IN *in vitro* experiments reported, by Newton in *Nature* (1953, 172, 160) the activity of the antibiotic polymyxin against *Pseudomonas aeruginosa* (an organism that causes infections of burns) is reduced in the presence of magnesium. When suspensions of washed cells of the organism (about 2×10^9 viable cells per mil) were treated with 15 μ gm. polymyxin per mil for five minutes at 30° C. less than 10 per cent. of the cells remained viable. In the presence of a M/400 concentration of magnesium 70-90 per cent. of the cells were viable. Similar results were obtained with other non-toxic divalent cations such as calcium, manganese and ferrous iron. The author considers that the most reasonable explanation of the phenomenon is that polymyxin and magnesium compete for absorption by sites on or in the cells.

SILICONE OILS IN DERMATOLOGY

A PRELIMINARY study of silicone oils as dermatological vehicles is reported by Plein and Plein (*Journal of the American Pharmaceutical Association*, Scientific Edition, 1953, 42, 79). The compatibility of silicone oils with other substances used in formulating dermatological bases was tested by incorporating forty-two other vehicles with three silicone oils of widely varying viscosity. Cetyl alcohol, theobroma oil, glyceryl monostearate, lauric acid, wool fat, stearic acid, stearyl alcohol, etc., produced good binary mixtures with silicone oils. Mixtures of silicones with

Carbowaxes, soft soap, and glycerin were not stable and waxes had a tendency to appear as granules in wax-silicone mixtures. Silicone oils were practically immiscible with vegetable oils, liquid paraffin, some of the acids, and some of the alcohols including cholesterol. It was found that silicone emulsions could be prepared with the gums commonly used in pharmaceutical practice. The best emulsions were produced using 4 per cent. of a mixture of powders by the Atlas Powder Co., viz: G2125 (28 per cent.) and G2126 (72 per cent.). The emulsifier was mixed with the silicone oil and water was slowly added while the mixture was agitated until the primary emulsion was formed. A mixture of equal parts of Tween 20 and Span 80 also proved to be a good emulsifier of silicone oils. Six silicone oil ointment bases were devised and their physical properties and their compatibility with a number of commonly used drugs described. The rates of diffusion of a number of drugs from the silicone bases were compared with the rates from three United States Pharmacopoeial bases. The use of silicone oils as vehicles or as ingredients of vehicles for liniments was also studied. Silicone oils were advantageous in being odourless, not subject to rancidity, and of wide viscosity range.

KILO CURE

THE drug houses insist
Our "Wants List"
Takes on a continental look
With grammes
Not drachms
And c.c.'s
If you please!
—Where's my Conversion Table book?
No doubt, in due course,
Perforce
We'll have to order lint in metres
And buy piles
Of ten-mil vials.
—Can I serve you, sir?
—Ounce tincture of myrrh?
—Quick boy! What's that in millilitres?
But, oddly, these same firms
By whose terms
The decimal is on its way
Have no complaint
With the very quaint
Old currency
Of L S D
When times come round for settling day.

J.J.H.

MISCELLANEOUS INQUIRIES

Dextrin Adhesive

I should like a formula for a starch adhesive.

WE assume that you want a formula for a dextrin type of gum—dextrin being a product of starch hydrolysis. The following formula for a dextrin mucilage may be suitable:—

- Dextrin 16 oz.
 - Thymol 15 gr.
 - Water 17½ oz.
- Dissolve the thymol in a little spirit, mix with the dextrin and add the water. Heat on a water bath until dissolved. Allow to settle, skim, and decant.

Nickel and Chrome Polish

Have you a formula for a nickel and chrome polish?

THE following is a useful formula:—

- Water 10 lb.
- Pine oil 2 lb.
- Sodium oleate 2 lb.
- Powdered silica (300 mesh) ... 5 lb.
- Concentrated ammonia solution ... 4 oz.

Heat the water to about 80° C. and add the sodium oleate with constant stirring, then add the pine oil and silica. Allow to cool to room temperature and add the ammonia solution with more stirring until emulsified.

Labelling Saccharin

What are the regulations governing the labelling of packets of saccharin tablets?

IN the Saccharin Order, 1949 (S.I. 1949, No. 945) the only reference to labelling of saccharin is a statement that “no person shall sell by retail any sweetening tablets except in packets bearing a label stating in clearly legible letters the number of tablets contained in the packet and the saccharin content of each tablet.” A copy of the order may be purchased from H.M. Stationery Office, Kingsway, London, W.C.2.

Ridding Ponds of Algæ

How can I get rid of green algæ in ponds without damaging the fish?

COPPER sulphate may be used to destroy green algæ in ponds. A concentration of 5 oz. per 20,000 gall. of pond water (6.25 gall. = 1 cu. ft.) is effective and not harmful to fish. It is better to dissolve the calculated amount of the salt in water and pour the solution into the pond than to throw in the crystals direct. A concentration of one part per million of copper sulphate will keep an unaffected pond free from algæ.

Flash Powder

I shall be glad if you would let me have a formula for a flash powder.

HERE is a representative formula for such a powder:—

- Powder separately:
- Strontium nitrate 45
- Sulphur 15
- Potassium chlorate 10
- Lamp black (carb. ligni) 2.5
- Antimony sulphide 0.5

Mix carefully in small quantities. The powder burns with a brilliant crimson flame. Replace the strontium salt with barium nitrate for a green flash. The mixture is explosive.

Leather Cement

Is there any satisfactory method of joining pieces of leather without stitching?—W.O.T.

THE following are formulas for leather cement:—

- 1. Carbon disulphide ... 500 parts
- Oil of turpentine ... 50 parts
- Indiarubber, in shreds ... 75 parts
- Shellac 50 parts
- 2. Gutta percha ... 1 oz.
- Benzene 10 oz.
- Dissolve and add
- Boiled linseed oil ... 2 oz.
- 3. Indiarubber ... 40 parts
- Colophony 35 parts
- Boiled linseed oil ... 25 parts
- Melt together.

Hard Pad Disease

Will you please tell me the most up-to-date treatment of hard pad disease in dogs?

RECENT clinical reports have shown chloramphenicol to be of use in the treatment of hard pad disease. Administered orally the dosage used for adult coursing greyhounds has been an initial one of 0.5 gm., followed by 0.25 gm. three times daily per dog for four days. Other doses are worked out on a weight ratio basis. Signs of relapse after a varying period of days following cessation of administration of chloramphenicol have been noted, with rise in temperature, anorexia and general malaise and, in two cases, pneumonia. A second course has led to recovery in those cases. Kaolin and phthalylsulphathiazole have been administered with good results in cases of diarrhœa. Vitamin B compound tablets are also useful in treatment with chloramphenicol.

Soil “Cubes”

How are soil cubes made? What binding agent is used in their manufacture?

NO binding agent is used in the manufacture of “soil cubes” or blocks as they are called. Compost made to the John Innes formula is subjected to pressure in a suitable mould. It is an advantage to have the compost slightly more moist than usual.

JOHN INNES COMPOST

- The basic mixture is:—
- 7 parts by loose bulk medium loam
- 3 parts by loose bulk granulated (or moss) peat
- 2 parts by loose bulk coarse silver sand
- The basic potting compost is fortified with fertilisers and a standard mixture is recommended:—
- 2 parts by weight hoof and horn meal, ½ in. grist (13 per cent. N)
- 2 p.b.w. superphosphate of lime (16 per cent. phosphoric acid)
- 1 p.b.w. sulphate of potash (48 per cent. pure potash)

“White Scour” in Cattle

What sulphonamide would be used in the treatment of white scour in cattle, and could it be used in conjunction with brilliant green?

THE main difficulty associated with the chemotherapy of “white scour” is the considerable variation in sensitivity of the organisms involved. For that reason it is difficult to make any defi-

nite forecast of the efficacy of sulphonamide treatment in any individual case. For your needs phthalylsulphathiazole or sulphadimidine might be effective. The presence of brilliant green would not be expected to interfere with the action of the sulphonamide.

The problem of white scour was discussed by Dr. George Brownlee (*Vet. Rec.*, 1945, 57, 229). In a table attached he indicates the relative efficiency of various sulphonamides *in vitro* against twenty-eight strains of *Escherichia coli* obtained from fatal cases of “white scour.” Some were almost totally resistant to sulphanilamide and sulphaguanidine, but sulphathiazole gave results incomparably superior to those from other compounds tested. From the findings it is concluded that derivatives such as succinylthiazole would be most effective in treatment.

Hair and Lime Creams

May I please have formulas for a thick hair cream without gum and a lime cream with glycerin?

HERE are formulas that may suit your requirements:—

- HAIR CREAM
- Triethanolamine 1.25
- Stearic acid 6.0
- Spermaceti 3.0
- Liquid paraffin 25.0
- Distilled water 65.0
- Perfume 9.5

Dissolve the stearic acid and spermaceti in the liquid paraffin over a water-bath. While still warm, run in a solution of the triethanolamine in the water at the same temperature. Stir vigorously until cool and add the perfume.

- LIME CREAM
- Almond oil 2 lb.
- White wax 1 oz.
- Lime water 2 lb.
- Glycerin 2 oz.
- Oil of verbena 1 dr.
- Oil of lemon 6 dr.
- Oil of bergamot 3 dr.

Melt the wax in a few ounces of the oil and add the rest of the oil, previously warmed. Mix the glycerin with the water, and add to the whole of the oils gradually and with constant shaking.

Spectacle Lens Cleaner

I am in need of formulas for a spectacle lens cleaner. Can you help me?

AMONG well-established formulas are the following:—

- Coconut-oil soap 100
- Tripoli 10
- Alum 5
- Cream of tartar 5
- Water q.s.

Boil the soap with sufficient water to produce a jelly, then add, with constant stirring, the other ingredients which should have been previously mixed and sifted. Pour, while hot, into shallow tin moulds. For cleaning, moisten the glass, apply the paste and polish with a soft rag.

- Potassium oleate 2 oz.
- Glycerin 1 oz.
- Oil of turpentine 1 dr.

Melt the potassium oleate and glycerin together on a water bath, then add the oil of turpentine. If the paste is too thick it may be thinned by the addition of more glycerin.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 5: The Bank holiday period brought with it the usual seasonal falling off in interest in the markets. The chief movement in the PHARMACEUTICAL and FINE CHEMICALS was a reduction in LACTATES. Minor IODIDES and CARMINE also fell in price.

The freeing of sulphuric acid and ground sulphur from price control from August 4 (see p. 130) was announced during the week. Free dealings in copper began on the London Metal Exchange on August 5 after Government control since 1939. Lower rates for citrates became operative.

A number of small changes occurred in CRUDE DRUGS. In BALSAMS, TOLU was firmer at 18s. 6d. to 19s. BENZOIN, good quality Sumatra, was scarce and firmer at £30 5s. per cwt. CASCARA was difficult, although the little new-crop available had eased to 240s. per cwt., c.i.f. ERGOT was easier at 15s. per lb., c.i.f., and Chinese MENTHOL was easier. Among SEEDS, Indian DILL was dearer by 5s. per cwt. Offers of SENEGA, firmer at 14s. 6d., c.i.f., were scarce. In GUMS there was a slight easing in the spot price of ACACIA Kordofan to about 100s. per cwt., and a hardening of shipment quotations. Sudanese and Abyssinian BEESWAX were firmer at 365s. per cwt., c.i.f., spot. CARNAUBA WAX, fatty grey, was eased to 1,000s. spot, and to 935s. for shipment.

Few changes had taken place in ESSENTIAL OILS. CITRONELLA (Formosa) showed a firmer tendency at 3s. 9d. per lb.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, AUGUST 4: Suggestions are being made that the market for PHARMACEUTICAL and FINE CHEMICALS may have reached a state of saturation because of the expansion of productive capacity in recent years. Lower per lb. were U.S.P. grade TARTAR EMETIC at 61 cents (down 3 cents); ISONICOTINIC ACID at \$5.00 (down \$3), and Brazilian MENTHOL at \$5.65 (down 10 cents).

Among CRUDE DRUGS the following were higher: MANDRAKE ROOT at 32

cents (up 1 cent); Bourbon VANILLA BEANS at \$4.90 (up 15 cents), and Indian PSYLLIUM SEED at 19 cents (up 1 cent). Lower per lb. are CALUMBA at 16 cents (down 4 cents) and WITCH HAZEL LEAVES at 18 cents (down 2 cents). In ESSENTIAL OILS, trade was reported to be better than a month ago. Lower per lb. were CLOVE LEAF at \$1.65 (down 15 cents), WHITE OIL OF THYME at \$2.00 (down 25 cents), RED OIL OF THYME at \$1.85 (down 35 cents).

Pharmaceutical Chemicals

ACETANILIDE. — 1-cwt. lots are now 2s. 9d. per lb. for crystals and 5-cwt., 2s. 8d. Powder is 1s. per lb. more.

AMIDOPYRIN. — In 1-cwt. lots the price is 29s. per lb.

AMPHETAMINE. — Base is 160s. per kilo, and SULPHATE, 140s. d-AMPHETAMINE SULPHATE is from 660s. per kilo. METHYL-AMPHETAMINE HYDROCHLORIDE, 2s. 3d. per gm. for 100-gm. lots.

AMYLOBARBITONE. — B.P.C. is 65s. per lb. for 1-cwt. lots and SODIUM, B.P.C., 70s. per lb.

BARBITONE. — Rates per lb. for 1-cwt. lots is 24s. The SODIUM derivative is 1s. per lb. more than the base.

BARIUM SULPHATE. — 1-cwt. lots of B.P. (x-ray) are 1s. 5d. per lb. and 5-cwt., 1s. 4d. per lb.

BENZOCAINE. — B.P. in 1-cwt. lots is about 22s. 6d. per lb.

BISMUTH SALTS. — The following are the prices (per lb.) in largest bulk packages:—

| | 1-cwt. | 28-lb. | 7-lb. |
|---------------|--------|--------|-------|
| | s. d. | s. d. | s. d. |
| CARBONATE .. | 23 5 | 23 8 | 27 5 |
| SALICYLATE .. | 22 6 | 22 9 | 26 4 |
| SUBGALLATE .. | 21 8 | 21 11 | 25 4 |
| SUBNITRATE .. | 20 11 | 21 2 | 24 6 |

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. The present 1-cwt. rates for other salts are:— CITRATE, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYDODGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

CAFFEINE. — Rates (per lb.) are as follows:—

| | 1-cwt. | 28-lb. | 7-lb. |
|----------------------------------|--------|--------|-------|
| | s. d. | s. d. | s. d. |
| ALKALOID, B.P. .. | 20 0 | 20 3 | 20 9 |
| ALKALOID ANHYDROUS .. | 21 0 | 21 3 | 21 9 |
| CITRATE, B.P.C. .. | 12 6 | 12 9 | 13 3 |
| and SODIUM BENZOATE, B.P. .. | 14 6 | 14 9 | 15 3 |
| and SODIUM SALICYLATE, B.P.C. .. | 15 6 | 15 9 | 16 3 |
| SODIUM IODIDE .. | 26 0 | 26 3 | 26 9 |

Lower quotations for 5-cwt. lots.

CALCIUM CARBONATE. — B.P. powder is £24 10s. per ton, ex store.

CALCIUM PANTOTHENATE. — Price per kilo is £32 10s.

CARMINE. — Reduced. Prices are from 72s. to 77s. per lb., according to quality.

CITRATES. — Lower. Rates (per lb.) are now as follows:— POTASSIUM, 1-cwt. lots, 3s. 10½d.; 28-lb., 4s. 10d.; SODIUM,

1-cwt., 3s. 3½d.; 28-lb., 4s. 2d. (powder of both salts twopenne more).

ETHER. — Prices (per lb.) in Winchester are now as follows:— TECHNICAL, B.S.S. and SOLVENT, 5-cwt., 2s. 3d.; 10-cwt., 2s. 2d. ANÆSTHETIC. B.P., 5-cwt., 3s. 8d.; 10-cwt., 3s. 7d. In drums prices are 2d. per lb. less than above.

FORMALDEHYDE. — B.P. solution is 34s. per cwt.

GALLIC ACID. — B.P.C. is 8s. 1d. per lb. for 1-cwt. lots.

HOMATROPINE HYDROCHLORIDE and HYDROBROMIDE. — In 1-lb. lots the price is 67s. 6d. per oz.; METHYLBROMIDE, 82s. 6d.

HYDROQUINONE. — Quotations for 1-cwt. lots are 10s. 6d. per lb. For smaller quantities, viz., 28-lb., 10s. 9d.; 14-lb., 11s. 6d.; 7-lb., 12s.

IODIDES (MINOR). — Reduced. The prices for 7-lb. and 1-lb. lots are:— AMMONIUM, 21s., 21s. 6d.; ARSENIC TRI-, 47s., 48s.; CADMIUM, 22s., 22s. 6d.; CALCIUM (PLATES), 21s. 6d., 22s.; ETHYL, 27s., 28s.; IRON, 23s., 23s. 6d.; LEAD, 22s., 22s. 6d.; LITHIUM, 22s., 28s. 6d.; STRONTIUM, 22s. 3d., 28s. 9d.; ZINC, 27s., 27s. 6d.

ISONIAZID. — Bulk lots are about 260s. per kilo.

LACTATES. — Reduced. CALCIUM, B.P., is 2s. 7d. per lb. in 5-cwt. lots; 1-cwt., 2s. 8d.; 28-lb., 2s. 11d.; 7-lb., 3s. 3d. per lb. CALCIUM SODIUM, for same quantities, 4s. 4d.; 4s. 5d.; 4s. 8d.; and 5s. per lb.

POTASSIUM ACETATE. — B.P. is 2s. 8d. per lb. in 1-cwt. lots.

POTASSIUM HYDROXIDE. — B.P. sticks are from 6s. 6d. per lb.

POTASSIUM PERMANGANATE. — Rates for B.P. material for 1-cwt. lots is 1s. 8½d. per lb., and for technical, 181s. 6d. per cwt.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

RESORCINOL. — 1-cwt. lots are now quoted at 13s. per lb. by manufacturer.

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots in paper-lined bags is £33 2s. 6d. per ton; 1-cwt., £2 1s. 8d.

SULPHOCARBOLATES. — SODIUM PHENOL-SULPHONATE, B.P.C. (powder) is 7s. 4d. per lb. in 1-cwt. lots and ZINC, B.P.C., 7s.

TANNIC ACID. — Home-trade rates for levis B.P. is from 5s. per lb.

TARTARIC ACID. — Rates for the home trade are now as follows:— 10-cwt. lots, 210s. per cwt.; 5-9-cwt., 212s.; 2-4-cwt., 214s.; 1-cwt., 215s.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In Winchester, prices are from 4s. 3½d. to 5s. 2d. per lb.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards, as to quantity.

THEOBROMINE. — Prices are as follows:—

| | 1-cwt. | 28-lb. | 7-lb. |
|--------------------------------|--------|--------|-------|
| | s. d. | s. d. | s. d. |
| ALKALOID, B.P.C. .. | 22 6 | 22 9 | 23 3 |
| and CALCIUM SALICYLATE .. | 18 6 | 18 9 | 19 3 |
| and SODIUM BENZOATE .. | 18 3 | 18 6 | 19 0 |
| and SODIUM SALICYLATE, B.P. .. | 15 6 | 15 9 | 16 3 |

Lower quotations for 5-cwt. lots.

THEOPHYLLINE. — ALKALOID is 24s. p. lb.; SODIUM ACETATE, 32s. 6d.; AMINOPHYLLINE (THEOPHYLLINE WITH ETHYLENE AMINE), 27s.; all 1-cwt. lots.

THYMOL. — Prices (per lb.) are 16s. 9d. for 28-lb. and 16s. 3d. for 1-cwt. lots.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

| | | |
|----------------------|--------------------|---------------|
| *Alexandria .. | Piastres to £ | 97½-97½ |
| *Amsterdam .. | Florins to £ | 10.56-10.72 |
| *Bombay .. | Shillings to rupee | 1/5½-1/6½ |
| Brussels .. | Francs to £ | 138.95-141.05 |
| Copenhagen .. | Kronor to £ | 19.19½-19.48½ |
| Dutch West Indies .. | Florins to £ | 5.24-5.32 |
| *Hong Kong .. | Shillings to \$ | 1/2½-1/2½ |
| *Karachi .. | Shillings to rupee | 2/1½-2/1½ |
| Lisbon .. | Escudos to £ | 79.90-81.10 |
| *Montreal .. | Dollars to £ | 2.79½-2.79½ |
| T.T. | Dollars to £ | 2.78-2.82 |
| New York .. | Kronor to £ | 19.85-20.15 |
| Oslo .. | Francs to £ | 972.6-973.3 |
| Paris .. | Kronor to £ | 14.37½-14.59½ |
| Stockholm .. | Shillings to £ | 2/3½-2/3½ |
| *Singapore .. | Francs to £ | 12.15½-12.33½ |
| Zurich .. | Francs to £ | 12.15½-12.33½ |

*Free market rates; remainder Bank of England.

Crude Drugs

ACONITE. — Spanish napellus is 3s. 2d. per lb., duty paid, ex wharf.

AGAR. — Kobé No. 1 on the spot is 18s. 6d. per lb.

ALOES. — Prime Cape on the spot is 165s. per cwt.; shipment, 158s., c.i.f.

ANTIMONY. — English, 99.6 per cent., £237 10s.; 99 per cent., £255 per ton.

ARECA NUTS. — Quotations are about 45s. per cwt. for spot material.

ASAFCETIDA. — Persian block is £15 per cwt., duty paid.

BALSAMS. — Quotations (per lb.) are: — Canada: New-crop for prompt shipment, 22s. 6d. landed terms, *Copaiba*: Soluble Para, spot, 13s. *Peru*, 10s. 3d., duty paid, and 9s. 3d., c.i.f., for shipment. *Tolu*, (genuine as imported) on the spot 18s. 6d. to 19s.

BELLADONNA. — A parcel of root testing 0.44 per cent. is offered at 1s. 6d. per lb. on the spot, duty paid; LEAVES are from 3s. per lb., as to test.

BENZOIN. — Good quality Sumatra block on the spot is scarce at £30 5s. per cwt. No. 1 for shipment, £29 5s., c.i.f., quoted.

BISMUTH. — In minimum 4-cwt. lots METAL is 17s. per lb.

BUCHU. — New-crop for shipment is 1s. 9d. per lb., c.i.f., and 2s. for spot.

CAMPHOR. — Chinese (B.P.) powder on the spot is 3s 7½d.; ¼-oz. tablets are quoted at 5s. 3d. per lb.; 2½-lb. slabs, 4s. 9d. per lb., all duty paid.

CAPSIUMS. — East African on stalk are 150s. per cwt., spot, and 130s., c.i.f., off stalk. 205s., and 175s., c.i.f.

CARDAMOMS. — Aleppy greens for prompt shipment are now 9s. per lb., c.i.f.

CASCARA SAGRADA. — New-crop offers for shipment are from 240s per cwt., c.i.f. September shipment, 252s. 6d. landed t.e.m. in bond.

CASSIA BARK. — Whole on the spot is about 100s. per cwt., in bond, and for forward delivery, 85s., c.i.f. Broken, 75s., in bond, and 65s., c.i.f.

CHERRY BARK. — Thin natural is f.om 1s. 9d. per lb., duty paid, and ros.ed. 2s. 2d., on the spot.

ERGOT. — Portuguese for shipment is nominal at about 15s., c.i.f.; spot, 16s. to 16s. 6d.

GUM ACACIA. — Kordofan cleaned sorts on the spot around 100s. per cwt. Offers for August shipment are 91s. 6d. afloat, and 88s. for August-September shipment.

MENTHOL. — Brazilian is 38s. per lb. Chinese, 38s., both duty paid. Shipment (c.i.f.): Brazilian, 34s., Chinese, 33s.

MERCURY. — Nominal spot value is £71 per flask, ex warehouse.

MYRRH. — Aden selected sorts are quoted at £16 per cwt., on the spot. Siftings are from £7 10s. to £8 10s., and granulated, £13.

NUTMEGS. — West Indian 80's quoted at 2s. 9d. per lb. on the spot and 2s. 6d. c.i.f. for shipment.

ORANGE PEEL. — Thin-cut is 2s. 2d. per lb., duty paid.

ORRIS ROOT. — Offers of average quality Florentine are about 155s. per cwt., ex-warehouse.

PAPAIN. — Spot values for East African grade one are 38s. 6d. and forward, 34s. to 36s., c.i.f. per lb. and grade two, 35s. to 36s., spot.

PEPPER. — Steady. White Sarawak is quoted 9s. 3d. to 9s. 6d. spot, per lb., 8s. 3d. afloat. Black Malabar is dearer at 1.075s. spot. Black Sarawak is 7s. 9d., c.i.f. afloat, and 6s. 9d. for August shipment.

PODOPHYLLUM. — *Emodi* root on the spot is 170s. per cwt. *Peltatum*, 336s.

QUASSIA. — Shipment offers are about 31s. 6d. per cwt., c.i.f.

QUILLAIA. — Whole bark is £105 per ton, c.i.f. and spot, £125.

RHUBARB, Chinese. — Spot offerings include: round Shensi at 12s. 3d. per lb.; rough round high dried, from 3s. 6d. to 8s. 6d. as to quality.

SAFERON. — Mancha superior is about 155s. per lb.

SANDARAC. — Morocco is offering on the spot at 13s. per lb.

SARSAPARILLA. — Jamaican native red is 2s. 6½d. per lb., c.i.f., and 2s. 9d., spot.

SASSAFRAS. — Bark is offered at 4s. 9d. per lb., on the spot.

SEEDS. — ANISE. — Spot quiet. Cyprian quoted at 137s. 6d. per cwt.; Turkish, 140s. per cwt., duty paid, and 135s. per cwt., in bond. CARAWAY. — Spot, quiet unchanged. Dutch is 83s. 6d. per cwt., duty paid. CELERY. — Indian steady at 1s. 11d. per lb., spot London. CORIANDER. — Steady with small business passing on spot. Morocco is quoted at 60s. per cwt., duty paid, and 55s. per cwt., in bond. English is 67s. 6d. per cwt. Morocco for shipment is now quoted at 52s. 6d. per cwt., c.i.f. CUMIN. — Quiet unchanged. Spot: Cyprian, 137s. 6d. per cwt.; Maltese, 155s.; and Morocco, 155s. per cwt., duty paid. DILL. — Indian on spot is dearer. Sellers now asking 85s. per cwt. FENNEL. — Unchanged. Indian quoted at 177s. 6d. per cwt., spot London. FENUGREEK. — Spot, Morocco is unchanged at 47s. 6d. per cwt., duty paid in London. MUSTARD. — English cleaned is 67s. 6d. to 87s. 6d. per cwt., according to quality.

SENEGA. — Firmer. Spot supplies cleared. For August-September shipment, 14s. 6d. to 14s. 9d. nominal, c.i.f., now asked.

SENNA. — *Tinnevely* LEAVES: number 1 on the spot, 11½d. per lb.; number 2, 10d., and number 3, 8d. PODS, f.a.q., are about 1s. per lb. on the spot and 9½d., c.i.f., August-September shipment. Hand-picked range from 1s. 8d. to 3s. ex wharf. *Alexandrian* PODS, manufacturing, 1s. 10d. to 2s. 3d.; hand-picked, 3s. to 4s. 6d.

SLIPPERY ELM BARK. — Selected slabs are 4s. per lb., and grinding quality, 2s. 9d. spot.

STRAMONIUM. — Indian LEAVES are 5½d. per lb., spot and European, 97s. 6d. per cwt.

STROPHANTHUS. — *Kombé*, 100 per cwt. is quoted at about 15s. per lb., on the spot, and *Gratus*, 25s. per lb., nominal.

STYRAX. — Spot is 5s. 6d. per lb., duty paid.

TRAGACANTH. — No. 1 ribbon on the spot is £112 10s. per cwt.; No. 2, £87 10s.; No. 3, £67 10s.

TURMERIC. — Madras finger is nominal at 102s. 6d. per cwt. and Rajapore, 100s., spot.

UVA URSI. — Spot offers are about 85s. per cwt.

VALERIAN. — Indian is 145s. per cwt. on the spot and 125s., c.i.f.

VANILLA. — Rates (per lb.) are: — 5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES. — Dar-es-Salaam spot, 430s. per cwt., August-September shipment, 415s., c.i.f.; Sudanese and Abyssinian, 365s., c.i.f., spot, 420s., duty paid; Benguella, 370s., c.i.f., and 420s., duty paid. CANDELLA. — Spot is 635s. per cwt. CARNAUBA. — Prime yellow on the spot is 1,250s. per cwt.; afloat, 1,220s., shipment, 1,200s., c.i.f.; fatty grey is 1,000s. on the spot; shipment, 935s., c.i.f. MONTAN. — Reibeck crude on the spot is 125s. per cwt. OURICURI. — Spot, 0.5 per cent. impurities, 730s. per cwt. SPERMACETI. — Case lots are 1s. 9d. per lb. upwards as to quantity.

WITCH HAZEL. — Leaves on the spot are about 1s. 9d. per lb.

Essential and Expressed Oils

ALMOND. — B.P. is from 6s. to 7s. 6d. per lb., as to quantity.

BERGAMOT. — Spot value is about 82s. per lb.

CAJUPUT. — Spot supplies are 18s. 6d. per lb.

CEDARWOOD. — Spot quotations for African are from 4s. 6d. per lb.

CELERY. — British distilled is from 130s. per lb.

CHENOPodium. — 1-cwt. lots are 65s. per lb.

CINNAMON. — B.P. oil on the spot is quoted at from 60s. per lb. English bark oil is offered from 23s. per oz. Ceylon leaf is from 9s. per lb.

CITRONELLA. — In original drums prices (per lb.) are: — Ceylon, spot, 3s., and shipment, 2s. 10½d., c.i.f.; Java, spot, 3s. 10½d., in bond, and shipment, 3s. 9d., c.i.f. Formosa, spot, 3s. 10½d. in bond and 3s. 9d., c.i.f.

CLOVE. — English-distilled bud is about 70s. per lb. for 5-cwt. lots. Madagascar leaf is 9s. 3d. per lb., duty paid, and 8s. 6d., c.i.f., for shipment; redistilled (B.P.) from 17s. 6d. per lb., spot.

COD-LIVER. — Medicinal, B.P., is 10s. 6d. per gall, in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER. — Russian-seed oil is 150s. per lb.

CUBE. — English-distilled and imported is offered at from 50s. to 55s. per lb.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported 70s.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are offered at from 30s. to 40s. per lb., as to origin.

EUCALYPTUS. — Drum lots of 70 to 75 per cent. eucalyptol on the spot are 5s. per lb., and 80 to 85 per cent., 5s. 3d. Forward prices are 4s. 9d. and 5s. 1d., c.i.f., respectively.

FENNEL. — Spanish sweet on the spot is quoted about 10s. 6d. per lb.

GARLIC. — English is from 55s. to 60s. per oz.

GERANIUM. — Bourbon on the spot is 80s. per lb. Shipment, 77s., c.i.f.

GINGER. — English-distilled oil is from 120s. per lb. Imported oils are available at from 80s. per lb.

HYDROCARPUS. — Spot is offered at 2s. 2d. per lb.

JUNIPER BERRY. — Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 80s. per lb.

LAVANDIN. — Spot value is 17s. per lb.

LAVENDER. — French, 40-42 per cent. linalol on the spot is about 44s. per lb.

LAVENDER SPIKE. — Spanish is about 11s. per lb.

LEMON. — B.P. (4 per cent. citral) on the spot is from 36s. to 49s. per lb. upwards of 53s. for best quality.

LEMONGRASS. — East Indian is 6s. 6d. on the spot and 5s. 10½d. per lb., c.i.f.

LIME. — Supplies of West Indian distilled are offered from 45s. to 50s. per lb., on the spot.

OLIVE. — Pharmaceutical oil in drums is from 24s. to 26s. per gall, on the spot, ex warehouse. French virgin (maximum acidity 1 per cent.) is offered for shipment at £270 and French Pharmaceutical (maximum acidity 0.25 per cent.), at £265 per 1,000 kilos, c.i.f., London. Spanish virgin is offered in drums on the basis of £250 per 1,000 kilos, f.o.b., Spanish ports.

ORIGANUM. — In original containers the price is 14s. per lb.

WORLD TRADE

Malaya Frees Pharmaceutical Imports.—Malaya has lifted all quota restrictions on the import of pharmaceutical products from European countries. The import of cameras is still restricted.

Soap Factory for Angola.—The Companhia do Assucar de Angola has been authorised by the Portuguese economic authorities to establish a modern soap factory at Dombo Grande, Benguela, Angola. Palm oil produced in quantity locally will be used.

Brazilian Exchange Regulations.—The following are included in the list of products that may now be exported from Brazil with 50 per cent. of the bills negotiable on the free market: medicinal roots, herbs, leaves and plants, excepting ipecacuanha and tonka beans.

Swiss Chemical Exports Increase.—An increase in the value of Switzerland's chemical exports is registered for June. Expressed in million Swiss francs, the June total of 57.4 is 8.8 higher than the May figure. The most pronounced increase took place in pharmaceuticals which rose from 23.6 to 27.9. Perfumery goods rose from 1.6 to 3.6.

Brazilian Carnauba Wax Exports.—Brazil's carnauba wax exports in 1952 totalled 7,932 short tons, a decrease of 25 per cent. on the 1951 shipments, according to information available to the Foreign Agricultural Service of the U.S. Department of Agriculture. As in previous years, the bulk of the exports (5,878 tons) went to the United States, and most of the remaining quantity to European countries.

Israeli Policy.—The Israeli Minister of Finance (Mr. Levi Eshkol) forecast cuts in imports into Israel of luxury and consumer goods when he introduced a development budget to the Israeli Government recently. He reported that the Dead Sea Works, Ltd., had already begun exploiting Dead Sea potash; output would be increased to 140,000 tons annually in 1954.

Kashmir Pyrethrum Plants.—Pyrethrum plants from seed imported into Kashmir from Kenya several years ago have flourished and growers are planning to expand the acreage and supply large quantities of extract to insecticide manufacturers in east Asian countries. Analyses are claimed to show that the active content of the locally-grown pyrethrum is comparable with that of the flowers grown in Kenya and Japan.

U.S. Production of Hydrazine.—A 3-million dollar plant has been opened at Lake Charles, Louisiana, for the first large-scale commercial production of hydrazine in the United States (which has a use as a rocket-fuel). It is expected to form the basis for a new division of chemistry for the making of dyes, synthetic detergents, etc. The plant will make a 95 per cent. pure product. When first sold in the U.S. the price was \$50 a lb., but the company's pilot plant brought the price down to \$9 in 1948, and the current price is \$2½ a lb.

NEW BRITISH STANDARD

COPIES of the following new British Standard are available from the British Standards Institution, Sales Branch, 24 Victoria Street, London, S.W.1:—

WEIGHING AND HEIGHT-MEASURING MACHINES FOR USE IN MATERNITY AND CHILD WELFARE AND SCHOOL HEALTH SERVICES (B.S. 1887, 1953, price 2s. 6d.). The Standard was prepared at the request of the Ministries of Health and Education, the Department of Health for Scotland, and the Scottish Education Department, in order to obtain speed and accuracy in the use of the above machines. The Standard specifies minimum requirements for the construction, calibration and accuracy, etc., of weighing machines of the following capacities: 40 lb., 70 lb., 170 lb. (transportable and non-transportable), 280 lb. (non-transportable), and spring balances for the use of midwives (11 lb. capacity), and gives also alternative metric capacities and graduations.

TRADE MARKS

From the "Trade Marks Journal," July 22

For anaesthetics (5)

RESOCAINE, 718,628, by Thomas Kerfoot & Co., Ltd., Bardsley.

For surgical hose and stockings, anklets, foot supports and arch preservers (10)

DOLCIS, 690,652, by Upsons, Ltd., London, S.E.1.

For non-medicated toilet paper and tissues, and paper handkerchiefs (16)

TOTSTISU, B717,473 by the British Patent Perforated Paper Co., Ltd., London, E.9.

For hair nets (26)

SUREFIT, B703,806, by Robert Shaw & Co., Ltd., Nottingham.

From the "Trade Marks Journal," July 29

For agricultural and horticultural chemicals (1)

CLAGON, 718,053, by Associated Fumigators, Ltd., London, E.16.

For soaps (3)

IML, 704,970, by Henkel & Cie G.m.b.H., Dusseldorf-Holthausen, Germany. DRIDRAW, GREENDRAW, 718,916-17, by Harry Green, Ltd., Barking.

For preparations for the hair (3)

TONI, 706,125, by Gillette Industries, Ltd., Isleworth.

For perfumes and non-medicated face powder (3)

JOY, B714,290, by Jean Paton Parfumeur, Paris, France.

For all goods excluding macassar oil (3)

RACASOL, 715,560, by Deodor-X Co. of England, Ltd., Ellesmere Port.

For hair creams (3)

PILVIGAINIE, 718,657, by Marcel Contier, Paris, France.

For insecticides and fungicides (5)

BOLIDEN, 708,839, by Bolidens Gruvaktiebolag, Stockholm, Sweden.

For catamenial appliances (5)

MASSLINN, B712,556, by Chicopec Manufacturing Corporation, New Brunswick, U.S.A.

For all goods (5)

RACASOL, 715,561, by Deodor-X Company of England, Ltd., Ellesmere Port. DRIVITE, HY-VITE, 717,558-59, by Boots Pure Drug Co., Ltd., Nottingham. ETHNYL, ETHNOPHEN, 718,143-44, by Allen & Hanburys, Ltd., London, E.2.

For deodorisers, disinfectants and insecticides (5)

PRITCHARDS PUROSANITATION, PRITCHARDS SPRAY-A-MIST, 717,303-04, by Pritchards, Ltd., Cheadle.

LOCAL OFFICERS

National Pharmaceutical Union

Cardiff Branch.—*Chairman*, Mr. B. Steyn; *Vice-chairman*, Mr. D. P. Howell; *Secretary*, Mr. W. R. Pomeroy, c/o 17 Meteor Street, Roath, Cardiff; *Treasurer*, Mr. N. E. Richins.

Pharmaceutical Society

Norwich Branch.—*Chairman*, Mr. J. F. J. Cook; *Vice-chairman*, Mr. E. G. A. Stone; *Secretary*, Mr. H. P. Whiteside, 128 Dereham Road, Norwich; *Treasurer*, Mr. G. Baskerville.

PRINT AND PUBLICITY

Periodicals

A. C. GILL & CLEAVER, LTD., Marquise Factory, Fletcher Gate and Warser Gate, Nottingham: "Marquise Message," Vol. 3, No. 3, Summer 1953, pp. 16.

INNOXA (ENGLAND), LTD., 1 Eden Street, London, N.W.1: "The Innoxia Approach," July 1953, pp. 4.

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: "The Roche Courier," Vol. 19, No. 5, pp. 4.

THE WATFORD CHEMICAL CO., LTD., 22 Copperfield Road, London, E.3: "The Molecule," Vol. 1, No. 3, Summer 1953, pp. 36.

Medical Propaganda

Manufacturers' leaflets, booklets, etc., directed to doctors but available to pharmacists.

C. L. BENCARD, LTD., Minerva Road, London, N.W.10: "Prodexin" (6-p. folder).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Ferlucon," "Pradupen" (4-p. leaflets); "Dindevan" (8-p. booklet).

PARKE, DAVIS & CO., LTD., Staines Road, Hounslow, Middlesex: "Caladryl" (leaflet); "Benadryl" (blotter).

PHARMACEUTICAL LABORATORIES GEIGY, LTD., Rhodes, Middleton, Manchester: "Synopen," "Eurax, a New Approach to the Problem of Pruritus" (4-p. leaflets).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Anthisan and Phenergan" (4-p. "concise information" leaflet); "Soneryl" (blotter).

Advertising Campaigns

ILFORD, LTD., Ilford, Essex: Advertising in national Press, on public transport and posters in most large provincial towns for Ilford films. REMINGTON RAND, LTD., 1 New Oxford Street, London, W.C.1: Commencing in September the Remington 60 will be nationally advertised in the newspaper and magazine Press.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, August 12

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, cricket ground behind the Saracen's Head Hotel, Stratford Road, Shirley, at 2.30 p.m. Sports day.

BRIGHTON AND HOVE PHARMACISTS' SPORTS CLUB, Victoria Road Recreation Ground, Portslade, Brighton, at 3.15 p.m. Cricket match against Portsmouth Chemists' Cricket Club.

IRISH CHEMISTS' GOLFING SOCIETY, Newlands golf club, Fintona.

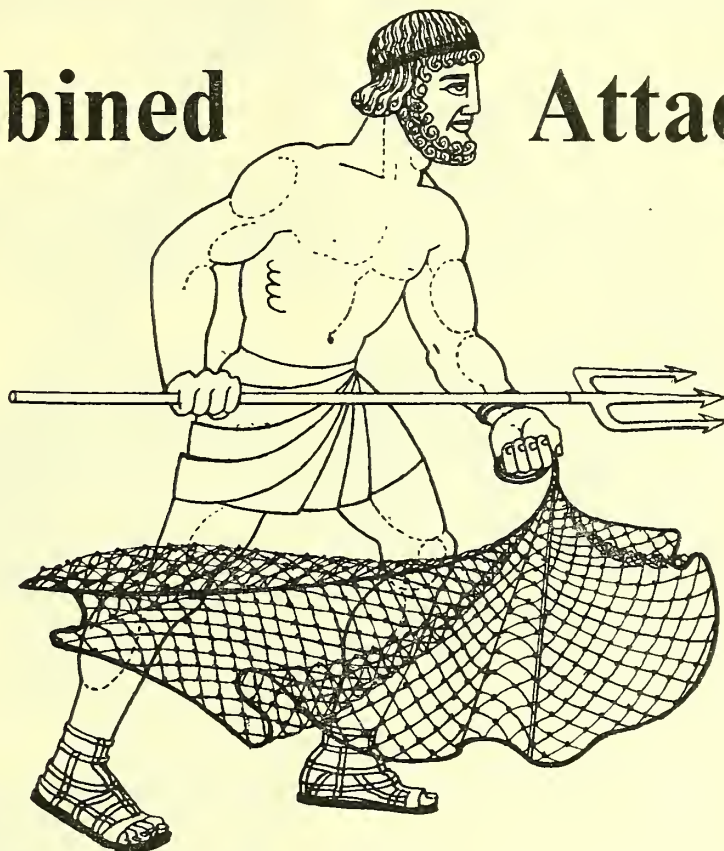
LONDON CHEMISTS' GOLFING SOCIETY, Mid-Surrey golf club (telephone: Richmond 1894). Fixture.

MANCHESTER CHEMISTS' GOLFING SOCIETY, Hazel Grove golf club, Fixture (Ucal trophy).

Advance Information

THE 1953 CHEMISTS' EXHIBITION is being held in the Old Hall of the Royal Horticultural Society, Vincent Square, Westminster, London, S.W.1, September 7-10. The opening ceremony by Mr. T. Heseltine (president of the Pharmaceutical Society) is on September 7 at 11.30 a.m.

Combined Attack



The combined use of Mycil Ointment and Mycil Powder provides effective *non-mercurial treatment* for athlete's foot and other fungal infections of the skin.

Mycil Ointment penetrates deeply to the site of infection.

Mycil Foot Powder protects against reinfection after clinical cure has been effected and is a useful agent with which to combat excessive perspiration.

'MYCIL'

| | | |
|----------------------------|-------|--------|
| 'MYCIL' OINTMENT | Trade | Retail |
| in collapsible metal tubes | 1/6 | 2/8 |
| 'MYCIL' FOOT POWDER | | |
| in sprinkler tins | 1/6 | 2/8 |



THE BRITISH DRUG HOUSES LTD. LONDON N.1
MYC/T/11

There's a Customer
born every minute



Make sure of your share of this lucrative BUSINESS

Every minute, every day,
we are supporting you by
forceful, hard-hitting adver-
tising with a nation-wide
readership of over 22,000,000
readers.

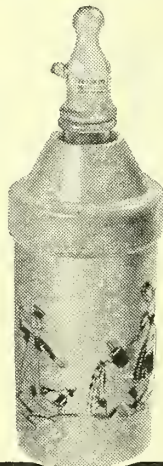
Display our showcards
and get your share of
this business.

FEEDRITE

LTD

300, KINGSTON ROAD,
MERTON PARK, LONDON, S.W.20
LIBerty 3443/4

REMEMBER
the FEEDRITE
Anti-colic teat will not
go flat as baby sucks
.... A selling point
well worth remember-
ing when making one
of those many sales
which are boosting
trade everywhere.



4

Be sure of satisfaction



A *real* Lastonet surgical
stocking is finer and cooler
and does, of course, fit
perfectly. It is also
invisible under ordinary
stockings and stretches
equally in all directions to
afford full, even support.
See you have a supply
of Lastonet self-
measurement forms.

sell only
GENUINE

Lastonet

the original elastic net stocking
ALWAYS MADE TO MEASURE
the stocking with six months' guarantee

LASTONET PRODUCTS LTD • CARN BREA • REDRUTH • CORNWALL

THESE ARE THE PEAK
MONTHS FOR

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REGD.

ROSE SCENTED
HAIR REMOVER

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2/3

PER TUBE

12/- per doz.
+ 75% tax.

and
don't
forget

Biometica's
latest winner

NYCOL

LADDERSTOP

1/3 PER TUBE

8/6 per doz. + 25% tax.

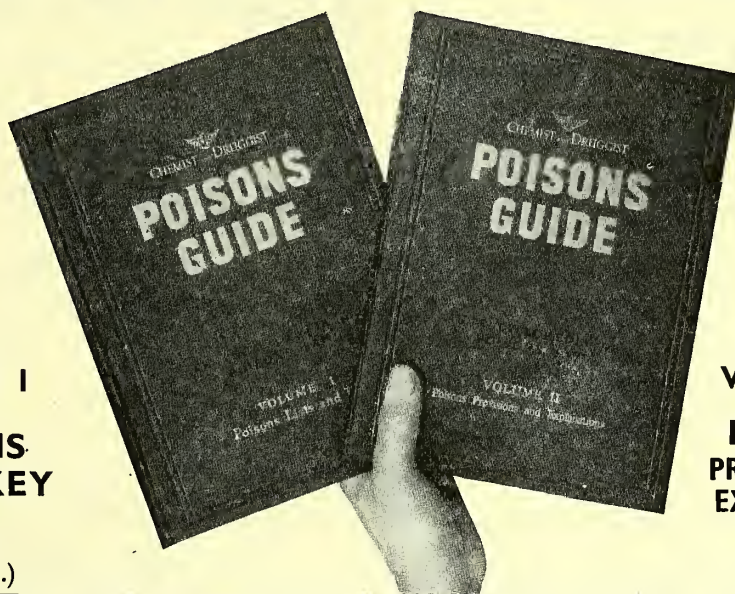
Biggest Ad. Campaign in full swing

44

AN ENCYCLOPÆDIA OF POISONS LAW

The
CHEMIST AND DRUGGIST

POISONS GUIDE



VOLUME I
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LIST AND KEY
20s.
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VOLUME 2
•
POISONS
PROVISIONS AND
EXPLANATIONS
40s.
(postage 6d.)

COMPILED AND CO-ORDINATED BY

W. A. WHATMOUGH

B.Sc., Ph.C., F.R.I.C.

No pharmacist, in whatever branch he is engaged, can afford to be without these two volumes, which together form a veritable encyclopædia of poisons law. They provide complete information on what the authorised seller of poisons should do in every situation covered by the Poisons Rules and Dangerous Drugs regulations and enable poisons to be supplied without the slightest anxiety. Order these essential volumes NOW !

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CHEMIST AND DRUGGIST

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ALOES
ADONIS VERNALIS
BELLADONNA LEAVES
and ROOT
DIGITALIS LEAVES

and all other Botanicals, Gums,
Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.
24 OLD BROAD STREET, E.C.2

Telephone : LONDON Wall 4882, 6585 (3 lines)

Telegrams : "Ergotine, Stock, London"

NEW YORK · HAMBURG

New
WALT DISNEY
Design

DDT FLY CARDS

SQUARE & CUT OUTS

Sample & prices on application to :-

THE COUNTY PAPER MILLS

72 TOTTENHAM COURT ROAD,
LONDON, W.1

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'Harley' Quality Products



'Harley'

SELLS AT 10½d.
FOR THE ROLL
AND 9d. FOR
THE FLAT
PACK.

Manufactured by

HAROLD WESLEY
HARLEY MILLS LONDON, N.W.10

DISPLAY AND RECOMMEND

SECTO D.D.T.

BRITAIN'S BEST—AND FOR PROFIT

Cupal Limited, Blackburn, Lancs.

DICTIONARY OF SYNONYMS

For the pharmacist and his staff.
Contains over 7,000 synonymous terms.

5/4 POST FREE

The Chemist and Druggist
28 ESSEX STREET, LONDON, W.C.2

TANNIC ACID
AND DERIVATIVES

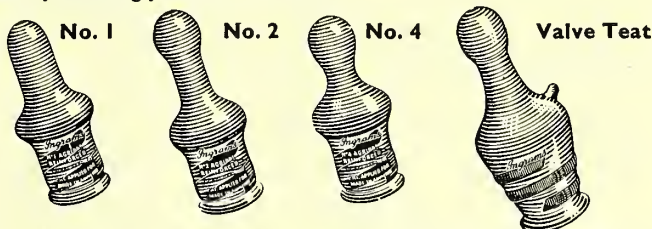
THE BRITISH DYEWOOD COMPANY LIMITED
19 St. VINCENT PLACE GLASGOW, C 1



BABIES EAGERLY ACCEPT INGRAM'S ...the TEAT that's guaranteed shape-and-flow-perfect

There are four specially designed Ingram shapes to cover every bottle-feeding need. Made from the finest sterilizable transparent rubber, INGRAM'S Teats are anti-colic. They ensure a contented, uninterrupted feed because every one is individually TESTED for FLOW. An additional advantage is the patent spiral band feature which prevents the teat being accidentally pulled off the bottle. Regular advertising support creates a constant demand for Ingram's. Prepare to get your full share of this business by ordering your stocks NOW!

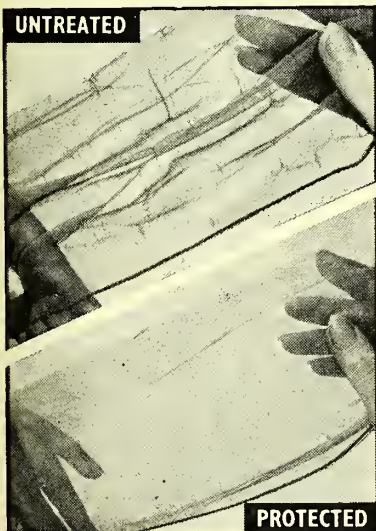
Ingram's
EXCLUSIVE
SPIRAL TEAT



Obtainable from your wholesaler to retail at 7½d. each

J. G. INGRAM & SON LTD., HACKNEY WICK, LONDON, E.9

Double life for nylons means big profit for you!



TESTS PROVE WHAT NYLIFE DOES
Here are two stockings, both belonging to the same pair. They were washed together, but only one was rinsed in Nylife. Both stockings were dragged over a coarse sand-paper surface under identical conditions. The dramatic results are shown in untreated photographs above.

*Cash in on Nylife now—the new rinse
that helps prevent snags and runs*

With the autumn increase in the wear of nylons, more women will be asking for NYLIFE. For women have learned how NYLIFE prevents snag trouble, helps prevent ladders in nylons, doubles their life—and is absolutely safe. This means more business for you. *Nylife is the only product of its kind on the market*; it sells at 2/3 a bottle (no purchase tax) and has the backing of a nationwide advertising campaign in the national press and popular women's magazines to support it. Be wise, therefore, and stock up *now* to meet the new increase in demand for NYLIFE.



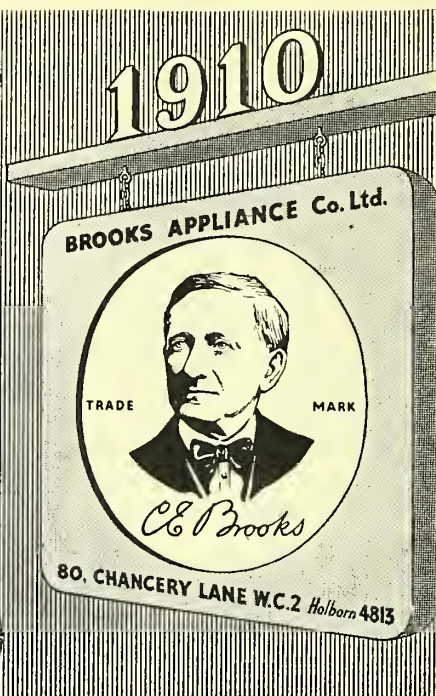
Nylife

NO PURCHASE TAX

**The only product of its kind
on the market**

A product of E. Griffiths Hughes Ltd. Adelphi, Salford, Manchester. (P.O. Box 407)

Why not work
with the
best known
name in the
**RUPTURE
APPLIANCE**
business?



BE WISE and take advantage of 43 years of trading goodwill and sell BROOKS RUPTURE APPLIANCES. Discount terms for individual orders, or stockist terms, are available to Retail Chemists. Vacancies are still open in many places for sales agents with the right personal fitting facilities, and applications are invited. Terms for these are particularly co-operative and attractive.

BROOKS RUPTURE APPLIANCES are far and away the best sellers of their kind because they are made to measure with complete satisfaction guaranteed.

**Rupture . . .
BROOKS . . . No delay!**

BROOKS APPLIANCE CO. LTD.

80 CHANCERY LANE, LONDON, W.C.2

and at HILTON CHAMBERS, HILTON STREET, STEVENSON SQUARE, MANCHESTER 1

66 RODNEY STREET, LIVERPOOL

Appliances supplied under
The National Health Service

Holidays bring bruises, strains, rheumatic pains . . .

*Make sure you have adequate
stocks of RADIAN-β to relieve
sufferers from holiday mishaps*

Tennis elbow, stiffness after cycling, swimming or beach games, minor rheumatic twinges, are frequently the result of overdoing things in the early days of a holiday, before muscles are tuned to greater exertion.

Radian-β aspirin spirit liniment and Radian Massage Cream are great stand-bys for these occasions. Their swift effectiveness promotes goodwill.

DISPENSING PACKS. All Radian products are packed in tax free bulk quantities for dispensing. Full details are available on application.

Radiol
CHEMICALS LIMITED

78 UPPER RICHMOND ROAD, LONDON, S.W.15

Telephone:
VANDyke 1642 & 2692

"KWICKDRY"
HOUSEHOLD
CREPE PAPER TOWELS
IN PERFORATED ROLLS
FOR THE MODERN HOUSEWIFE

THEY SAVE WORK
and DRUDGERY and
ARE STRONGER
WHEN WET.

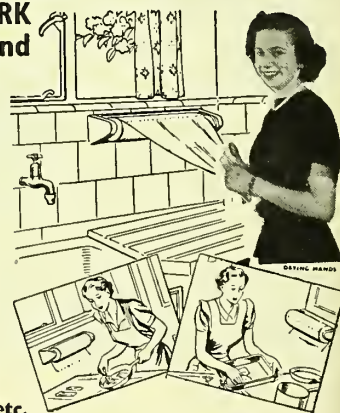
They serve a multitude of purposes. Of a soft, pleasing, crepe texture "KWICKDRY" TOWELS are very absorbent, can be squeezed like a cloth yet do not disintegrate.

FOR DRYING HANDS
DRAINING FRIED FOOD
CLEANING POTS & PANS, etc.

Wire Towel Holders supplied if required

This NEW habit is catching on! Are you cashing in?
Samples and prices from the Paper Specialists:—

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN : ENFIELD : MIDDLESEX
Telephone: HOWard 1847 (5 lines). *Grams: Sylkocrepe, Enfield



The Complete Service

**USE GOOD BOTTLES AND ENSURE
EXTREME ACCURACY OF CAPACITY**

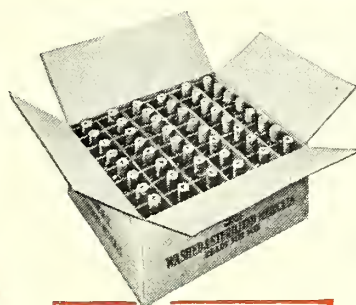
**WASHED AND
STERILIZED
READY FOR USE**



**FITTED
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OR ALUMINIUM CAPS**

**AVAILABLE
FROM STOCK**

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CORKMOUTH

UNITED GLASS BOTTLE MANUFACTURERS LTD

8, LEICESTER STREET, W.C.2 • Telephone: GERRARD 8611 (18 Lines) Telegrams: UNGLABOMAN, LESQUARE, LONDON

Presenting

THE ALL NEW REMINGTON 60 ELECTRIC SHAVER

Big



Commencing in September, Remington 60 advertisements will appear regularly in the following national newspapers and magazines

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|------------------|-------------------|
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| DAILY MAIL | PICTURE POST |
| NEWS CHRONICLE | ILLUSTRATED |
| EVENING NEWS | JOHN BULL |
| EVENING STANDARD | EVERYBODY'S |
| THE STAR | PUNCH |
| SUNDAY EXPRESS | LILLIPUT |
| SUNDAY DISPATCH | MEN ONLY |
| THE PEOPLE | REVEILLE |
| | WEEKEND MAIL |

Ask the man from Remington for details of the 60 Campaign or write

THE SHAPE OF *Big* BUSINESS TO COME!

For the first time in shaving history the sixty second shave is possible. Your customers may not be able to shave that fast, but 50 men, under supervision, shaved for ten days with the revolutionary Remington 60, and averaged 54 seconds per shave! The smooth performance and supreme efficiency of an electric shaver that is made to accomplish this provides a powerful sales argument. Compare the graceful lines of the 60 with any other electric shaver and you'll agree that here is a true masterpiece of engineering design. Long before this new Remington was placed in production, nearly 10 million electric shavers had been sold by Remington Rand... a remarkable testimonial to the millions who insisted on the best the market afforded. This new model is introduced for the outstanding reason that it shaves better and faster than any other shaving device on the market. Regular Model 210-250v. AC/DC. Dual Volt Model 110-150 & 190-250v. AC/DC.

FOR 145,000,000 REMINGTON 60 ADVERTISEMENTS WILL APPEAR IN NATIONAL ADVERTISING CAMPAIGN

space, power-packed National Advertising and Poster Campaign, linked with hard-hitting local advertisements and complete sales promotion material will announce this revolutionary shaving method — the all new Remington 60 Electric Shaver — to millions of men throughout the length and breadth of the land. The 60 is the last word in styling and performance. It will outsell any other model. Beautifully gift packaged, it has more speed and power than any other electric shaver ever developed. Its unique Contour principle design, with the extra wide heads affording a greater shaving area, will make an instant appeal to men everywhere — and an instant impression on retailers as a striking indication of the SHAPE OF FUTURE PROFITABLE BUSINESS TO COME!



REMINGTON RAND LTD
Wholesale Division
New Oxford St, London, W.C.1

Quality

in White Flint Glass Containers

**DISPENSING BOTTLES**

1-oz. to 20-oz.

RIBBED OVALS $\frac{1}{2}$ -oz. to 16-oz.**TABLET BOTTLES**Nos. 1 to 7 $\frac{1}{2}$ sizes.**ROUND SCREW JARS**

Tall and Semi-squat.

BOW-FRONT PANELS

1-oz. to 8-oz.

PANELLED FLATS

1-oz. to 4-oz.

VIALS $\frac{1}{2}$ -oz. to 3-oz.**OLIVE OIL BOTTLES**2 $\frac{1}{2}$ -oz., 5-oz. & 10-oz.

WHOLESALE ONLY

**NATIONAL GLASS
WORKS (YORK) LTD.**

FISHERGATE, YORK. Tel. YORK 3021.
ALSO AT 105 HATTON GARDEN, LONDON, E.C.1.
TEL. HOLBORN 2146



- Prompt delivery from stock
 - Packed in easily handled cartons
- Bow-Front Panels now also available in 16 oz. size.*



IZAL TOILET ROLLS ARE NOW DOWN TO
127/- per gross wholesale
New retail price (*FROM SEPTEMBER 1st*) **1/1½d**

THE MOST POPULAR AND MOST HEAVILY ADVERTISED TOILET ROLL
IN THE COUNTRY

NEWTON CHAMBERS & CO. LTD. THORNCLIFFE, Near SHEFFIELD



JEYES' toilet fittings

go into thousands more homes!

With the reduction in price from 12/6 to 7/6 there's a bigger-than-ever demand for Jeyses' Modern Toilet Paper Holder. More and more housewives are realising how much smarter and neater it is. The ever-increasing success of the Fitting means extra sales and extra repeat sales of Jeyses' Flat Packs of toilet paper.

This is what your customers get—

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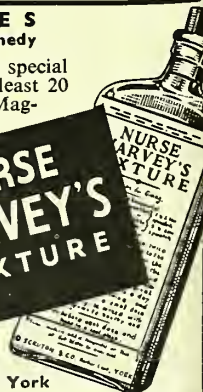
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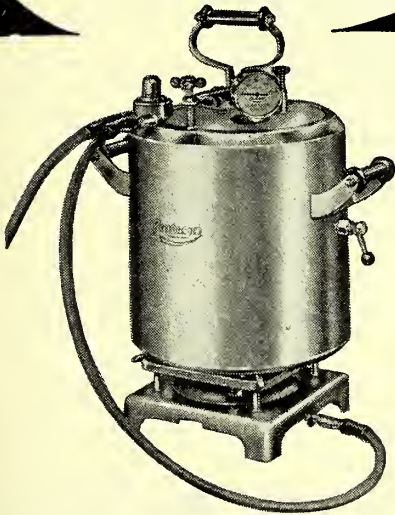


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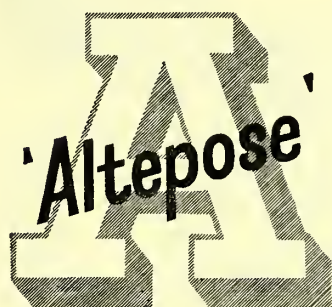
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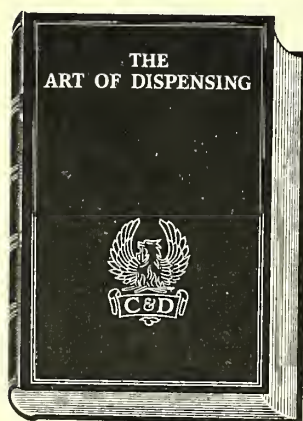


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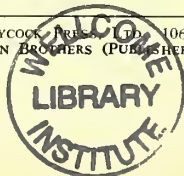
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